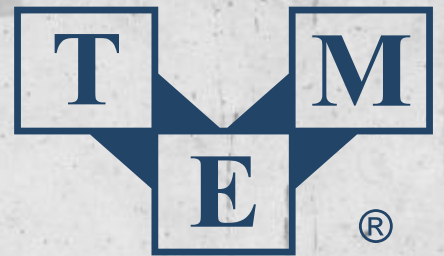


8051 ■ AVR ■ PIC ■ DSPIC ■ ARM ■ FPGA ■ x86

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Electronic Components

EMBEDDED SYSTEMS ■ USB ■ ETHERNET  
WI-FI ■ BLUETOOTH ■ GSM ■ GPS



FTDI ■ ESPRESSIF ■ ST ■ NXP ■ OLIMEX ■ ARDUINO ■ DIGILENT ■ AAEON ■ NORDIC ■ BANANA PI  
MICROCHIP ■ WIZNET ■ BRIDGETEK ■ DIGI ■ RIVERDI ■ 4D SYSTEMS ■ MIKROE ■ SOMLABS ■ GRINN

PROGRAMMERS ■ COMPILERS ■ DEBUGGERS

DEVELOPMENT TOOLS

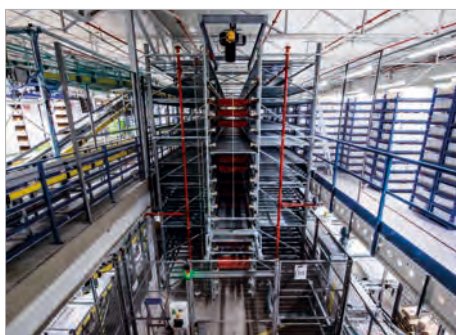


and many more ...



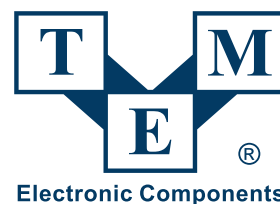
DEVELOPMENT TOOLS CATALOGUE

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## ABOUT US

TME Group is one of the largest global distributors of electronic and electrical components, workshop equipment and industrial automation.



## HEADQUARTERS OF THE TME GROUP AND SUBSIDIARIES

### EUROPE

#### HEADQUARTERS

**Transfer Multisort Elektronik Sp. z o.o.**  
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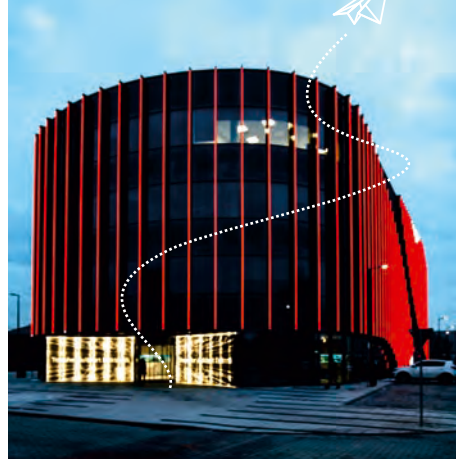


**Shenzhen TME Electronic Trading Company Ltd.**  
Shenzhen, China



**TME US, LLC.**  
Atlanta, the USA

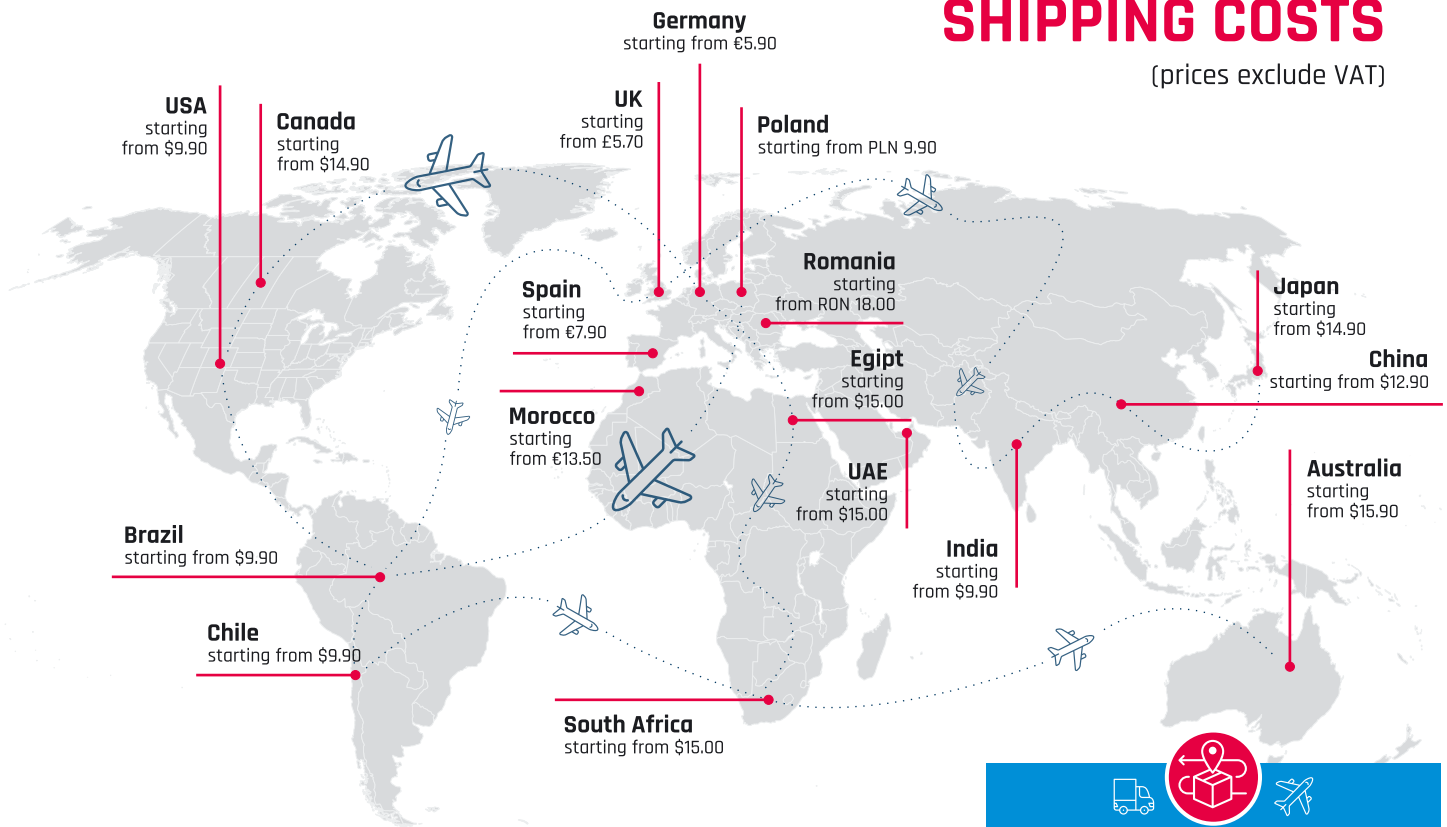
Our mission? To be  
the first distributor  
to deliver products  
to the Moon.





# SHIPPING COSTS

(prices exclude VAT)





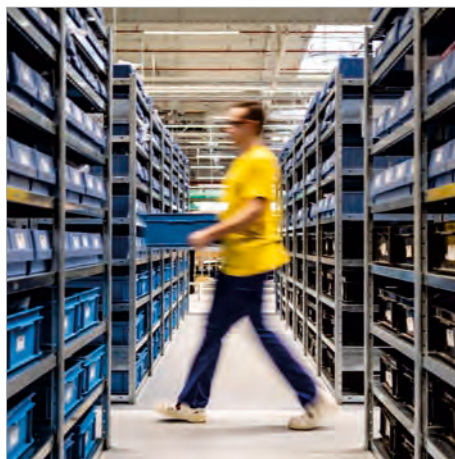
**WE'RE NOT AFRAID OF CHALLENGES!**

We ship packages to **150** countries!

They travel **thousands of kilometres** by road, air and water.

**We cooperate with the world's largest forwarding companies:**  
 » DHL » UPS » FedEx » DPD » DACHSER » GLS » PPL » Raben

 More details on current delivery terms & conditions and shipping costs can be found at [tme.eu](http://tme.eu).





over 500 000  
products



over 1 200  
suppliers

**TME**  
**IN NUMBERS**  
(2021)



over 1 300  
employees all  
around the world



over 220 000  
customers  
from 150 countries



approximately 5 000  
packages shipped  
every day



more than 1 000 000  
orders processed  
every year

## QUALITY & CERTIFICATES

TME meets the standards for product storage.  
We have specialist sections:

- + ESD,
- + cooling,
- + vacuum packing,
- + chemical warehouse.

We apply the **PN-EN ISO 9001:2015-10** quality management system  
and **PN-EN ISO 14001:2015-09** environmental management system.





## ORDERS

delivery / payment

Choose the most convenient form of order:



website



e-mail



phone



application

## DEVELOPMENT

## RZGÓW LOGISTICS CENTRE

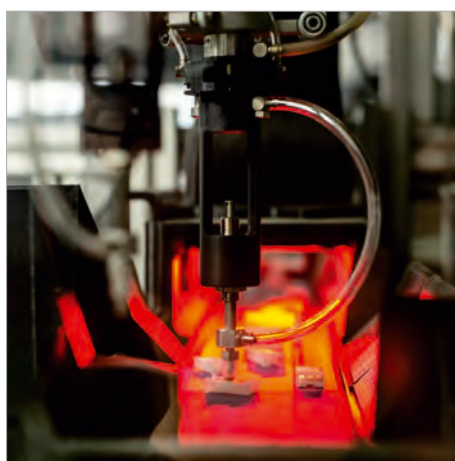
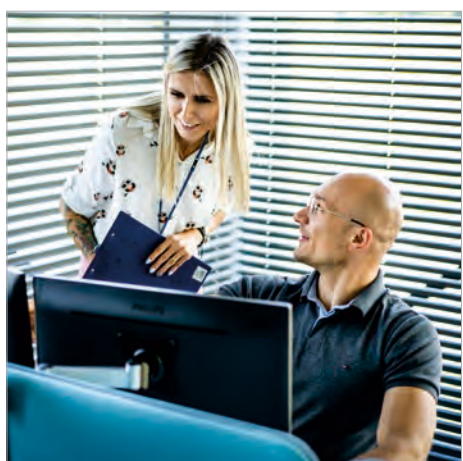


IN 2021

We have launched a new Rzgów Logistics Centre with an area of 21 000 m<sup>2</sup>.

**We have built a new, state-of-the-art logistics centre.**

- warehouse processes **automated in 60%**
- up to **1 000** parcels shipped per hour + **350** in the form of envelopes
- **160 000** locations in a rack storage
- **automatic high storage warehouse** with a capacity of **100 000** containers





## TME WEBSITE

tme.eu

26

languages

1 250 000

unique visitors monthly

12 300 000

unique visitors yearly

77%

of all orders placed online

tme.com



**Stock levels**  
updated in real time



**Quick Buy**  
reduced time of adding products  
to the shopping cart



**Favourites**  
organize products into folders  
and place regular orders



**Comparison tool**  
detailed side-by-side comparison of technical parameters



**Comprehensive product pages**  
product parameters, technical documentation, 360° images,  
3D models and videos



**Multilingual search engine**  
easy product search, results can be filtered according  
to technical parameters



**Fixed-date orders**  
choose your preferred delivery date and book items  
in the warehouse



**Availability notification system**  
monitor changing stock levels at TME



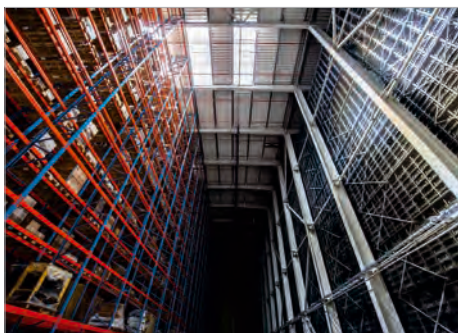
**e-payments**  
quick and secure payments



**e-invoices**  
download electronic versions of invoices  
and store them in your purchase history

Discover  
what  
our website  
offers





## API

Application Programming Interface

The API integrates your software with the TME purchasing platform.



catalogue and product specifications in multiple languages



stock levels updated on a regular basis



current prices, including individual discounts, in multiple currencies



data transmission security

We already have nearly **2 300** registered API users.

Speed up your shopping with TME API, visit <https://developers.tme.eu>.

With the help of the documentation provided, you will be able to carry out the integration process by yourself.



## EDI

Electronic Data Interchange

EDI allows for the electronic exchange of documents, including sales orders, order confirmations, invoices, shipment information, etc. and shortens their processing time.

For communication, our EDI uses cXML and tXML messages, which will handle your order and related messages.



If you want to integrate EDI, even if you use other communication standards, please contact our Sales Department.



have your orders processed faster



streamline your business processes



avoid paperwork and associated errors



automatically create and process electronic documents

## DATA FEED

We allow you to download TME offer data in the form of flat files, which can be easily customized for any application.

You'll have access to e.g.:

basic product details and parameters

current stock levels

price list

The data can be sent via:

» FTP «

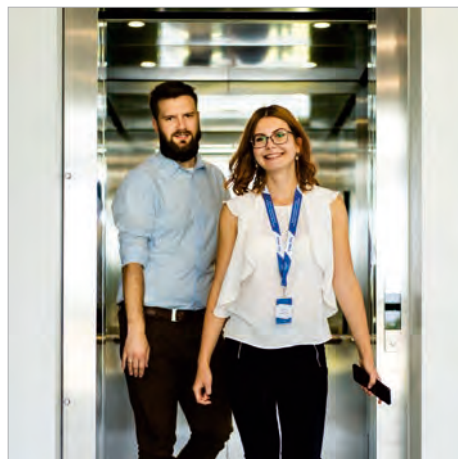
» e-mail «

» downloaded from the http protocol «

Files are sent in, among others, the following formats:



If you want to receive a Data Feed, please contact our Sales Department.





## Hello! It's TME Education here! Nice to meet you!

As a part of the global community, we are aware of social, economic and demographic changes around the world.



That is why, in 2016, Transfer Multisort Elektronik introduced **TME Education** - a unique initiative that promotes technological knowledge in regions where it's most needed and difficult to access. Our journey began in Ghana. Currently, we are operating in 25 African countries and India. In the nearest future, TME Education will also reach out to other regions where proper educational resources are needed to give the local youth equal opportunities to develop their passion and skills.

### WE ARE ALL ABOUT:

### Get to know us!

TME Education provides good-quality educational equipment along with practical skills and responsible knowledge transfer.



#### People and communities.

Together with our team of several dozen ambassadors and tutors, we reach out to youth, communities and schools in areas we operate. We design our training plans with due respect for local cultures, languages and customs.



#### Partnership.

In TME Education, we believe that the greatest solutions and outcomes are created through partnerships. Our collaboration with schools is based on mutual understanding and setting common goals that are designed to inspire and encourage the youth to aim higher.



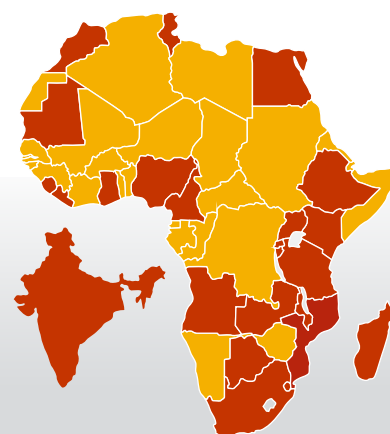
#### Practice.

Our training sessions are composed in a way that enables our students to get their hands on experiments. Moreover, we design our own educational kits to make the learning experience a hands-on-experiments journey.

### Join the cause!

Would you like to be a part of our journey?

Become our business partner! Contact us and let's talk about how we can create quality educational perspectives TOGETHER!



Check out our website:

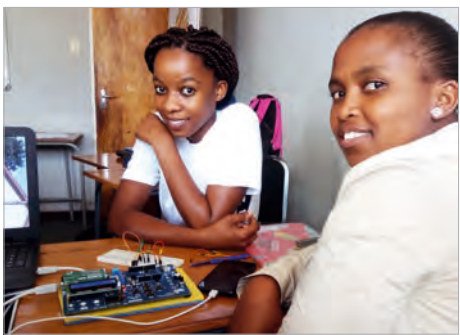
[www.tmeeducation.com](http://www.tmeeducation.com)

Follow us on:



Together We'll Go Further!



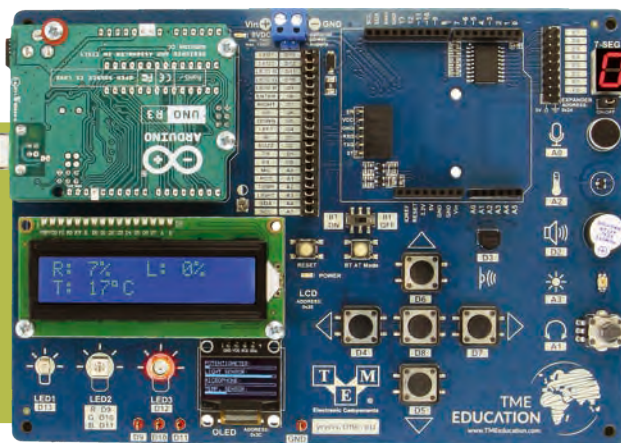


## Arduino-based TME Educational Board

Arduino-based **TME ARD EDU KIT rev2.** by TME Education is a highly intuitive and compact educational tool created to facilitate the microcontroller programming learning process. It was designed to fulfill the educational purposes of TME Education and was used during various workshops in numerous African countries and India. Its construction and low barrier to entry make it attractive and efficient for learners of all age groups, from primary school to university students and other electronics enthusiasts. **TME ARD EDU KIT rev2.** can be successfully used by learners, teachers and hobbyists. Using this tool, one can pursue the path of electronics or programming, depending on student's or teacher's preferences. The board will be a perfect choice both for school and home learning.

The kit is composed of **Arduino Uno** and a board with various embedded peripherals, including:

- |                       |                           |
|-----------------------|---------------------------|
| 1. Switches           | 8. RGB LED                |
| 2. Potentiometer      | 9. LCD display            |
| 3. Temperature sensor | 10. Programmable RGB LEDs |
| 4. Light sensor       | 11. OLED display          |
| 5. Buzzer             | 12. Microphone            |
| 6. Bluetooth module   | 13. 7-segment display     |
| 7. LEDs               | 14. IR receiver           |



The number and variety of included elements make it possible to create diversified projects using only the board. It is also possible to connect the device to external peripherals.

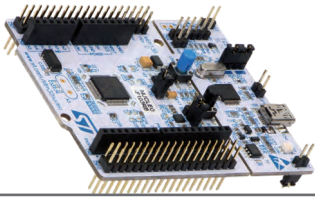



Get your own **TME ARD EDU KIT rev2.** on [www.tme.eu](http://www.tme.eu) and set off on a journey with Arduino programming!



## FINAL REMARKS

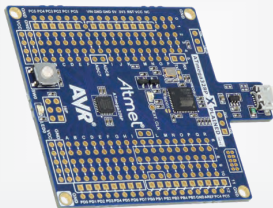
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Microchip PIC, AVR, ARM microcontrollers

Development kits for MICROCHIP TECHNOLOGY AVR and ARM microcontrollers

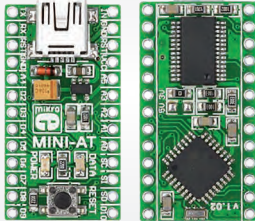


AVR  
ARM

Manufacturer : MICROCHIP TECHNOLOGY

Symbol	Development kit	Family	Components
ATMEGA1284P-XPLD	Microchip AVR	ATMEGA	ATMEGA1284P
ATMEGA168PB-XMINI	Microchip AVR	ATMEGA	ATMEGA168PB
ATMEGA328PB-XMINI	Microchip AVR	ATMEGA	ATMEGA328PB
ATMEGA328P-XMINI	Microchip AVR	ATMEGA	ATMEGA328P
ATMEGA4809-XPRO	Microchip AVR	ATMEGA	ATMEGA4808
ATSAM4S-WPIR-RD	Microchip ARM	SAM4S	SAM4S16C
ATSAMC21N-XPRO	Microchip ARM	SAMC	ATSAMC21N18A
ATSAMD10-XMINI	Microchip ARM	SAMD	ATSAMD10D14A
ATTINY104-XNANO	Microchip AVR	ATTINY	ATTINY104
ATTINY3217-XPRO	Microchip AVR	ATTINY	ATTINY3217
ATTINY416-XNANO	Microchip AVR	ATTINY	ATTINY416
ATTINY817-XMINI	Microchip AVR	ATTINY	ATTINY817

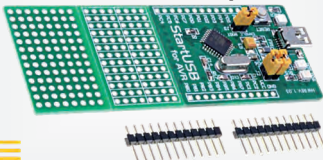
MIKROE MINI-AT Board development kits



AVR

Symbol	Manufacturer	Manufacturer's symbol	Components	Interface
MIKROE-671	MIKROE	MINI-AT BOARD - 5V	ATMEGA328	UART
MIKROE-672	MIKROE	MINI-AT BOARD - 3.3V	ATMEGA328	UART

MIKROE StartUSB for AVR development kit

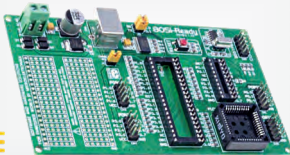


AVR  
USB

Symbol	Manufacturer	Manufacturer's symbol	Components
MIKROE-682	MIKROE	STARTUSB FOR AVR	AT90USB12

Interface : USB  
Features : microcontroller I/O lines lead to goldpin connectors; prototyping area

MIKROE 8051 Ready development kit



8051

Symbol	Manufacturer	Manufacturer series	Manufacturer's symbol
MIKROE-257	MIKROE	AT89	8051 READY

Interface : JTAG  
Kind of connector : DIP20 socket; DIP40 socket; PLCC44 socket  
Features : microcontroller I/O lines lead to goldpin connectors; prototyping area

MIKROE Ready for AVR Board development kit

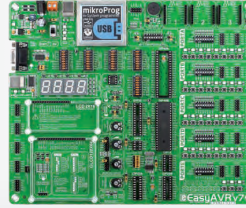


AVR

Symbol	Manufacturer	Manufacturer's symbol	Components
MIKROE-977	MIKROE	READY FOR AVR BOARD	ATMEGA16

Interface : UART  
Features : microcontroller I/O lines lead to goldpin connectors; prototyping area  
Related articles:  
Symbol Product description  
MIKROE-1350 Case:grey

MIKROE EasyAVR v7 development kit



AVR

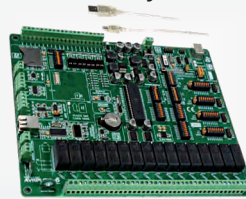
Symbol	Manufacturer	Manufacturer's symbol	Family
MIKROE-1385	MIKROE	EASYAVR V7	ATMEGA, ATTINY

Interface : JTAG; UART  
Kind of connector : D-Sub 9pin; mikroBUS socket; USB  
Features : buzzer; microcontroller I/O lines lead to goldpin connectors; 1kbit EEPROM memory; contrast adjustment potentiometer; analog adjustment potentiometer; compatible with GLCD 128x64; cooperates with 2x16 LCD; integrated programmer  
Kit contents : documentation; USB cable; DVD disc; prototype board

Related articles:

Symbol	Product description
MIKROE-240	Display;Display:graphical,LCD;Resolution:128x64;touch panel
MIKROE-485	Scriber;for resistive touch panels
MIKROE-511	Connection cable;female-female;PIN:1;150mm;Pcs:10
MIKROE-512	Connection cable;male-female;PIN:1;150mm;Pcs:10
MIKROE-513	Connection cable;male-male;PIN:1;150mm;Pcs:10

MIKROE AVRPLC16 v6 PLC System development kits



AVR

Symbol	Manufacturer	Manufacturer's symbol
MIKROE-551	MIKROE	AVRPLC16 V6 PLC SYSTEM

Features : socket for MMC/SD cards; microcontroller I/O lines lead to goldpin connectors; ATMEGA32 microcontroller; opto-isolator board; 12bit A/D converter; relay board; RTC; cooperates with GPS/GSM module; integrated programmer/debugger; reference voltage source with regulated value  
Interface : Ethernet; ISP; JTAG; RS232; RS485

**PIC10F32x Development Board by MICROCHIP TECHNOLOGY**



8 BIT

PIC

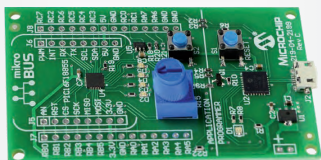


Symbol Manufacturer Manufacturer's symbol Family  
**AC103011** MICROCHIP TECHNOLOGY AC103011 PIC10

Kind of connector : ICSP

Features : prototyping area;  
 potentiometer

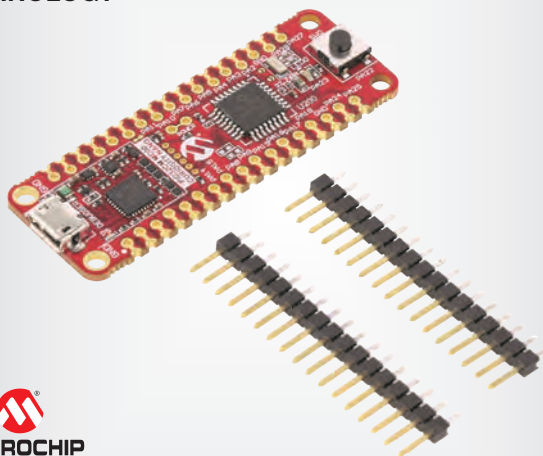
**Xpress Board development kits by MICROCHIP TECHNOLOGY**



Manufacturer : MICROCHIP TECHNOLOGY

Symbol	Components	Interface
<b>DM164140</b>	PIC16F18855	GPIO; I2C; PWM; SPI; UART; USB
<b>DM164141</b>	PIC16F18345	GPIO; I2C; PWM; SPI; UART; USB
<b>DM164142</b>	PIC16F18877	GPIO; I2C; PWM; SPI; UART; USB
<b>DM164143</b>	PIC16F15376	GPIO; I2C; PWM; SPI; UART; USB
<b>DM182026</b>	PIC18F46K42	GPIO; I2C; PWM; SPI; UART; USB
<b>DM182027</b>	PIC18F47K40	GPIO; I2C; PWM; SPI; UART; USB

**Curiosity NANO development kits by MICROCHIP TECHNOLOGY**



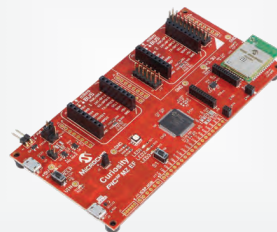
Manufacturer : MICROCHIP TECHNOLOGY

Kind of connector : pin header;  
 USB B micro

Features : microcontroller I/O lines lead to goldpin connectors;  
 integrated programmer/debugger

Symbol	Development kit	Components
<b>DM080103</b>	Microchip AVR	ATTINY1607
<b>DM080104</b>	Microchip AVR	ATTINY1627
<b>DM164144</b>	Microchip PIC	PIC16F18446
<b>DM164148</b>	Microchip PIC	PIC16F15376
<b>DM182028</b>	Microchip PIC	PIC18F47K42
<b>DM182029</b>	Microchip PIC	PIC18F47Q10
<b>DM182030</b>	Microchip PIC	PIC18F57Q84
<b>DM320115</b>	Microchip AVR	ATMEGA4809
<b>DM320119</b>	Microchip ARM	SAMD21G17D
<b>EV09Z19A</b>	Microchip PIC	PIC16F15244
<b>EV10N93A</b>	Microchip PIC	PIC32CM1216MC00032
<b>EV26Q64A</b>	Microchip PIC	PIC18F16Q41
<b>EV35L43A</b>	Microchip AVR	AVR128DB48
<b>EV70C97A</b>	Microchip PIC	PIC18F16Q40
<b>EV72Y42A</b>	Microchip AVR	AVR64DD32
<b>EV76S68A</b>	Microchip ARM	ATSAME51J20A

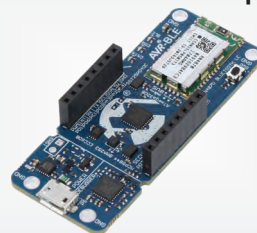
**Curiosity development kits by MICROCHIP TECHNOLOGY**



Manufacturer : MICROCHIP TECHNOLOGY

Symbol	Development kit	Components	Add-on connectors
<b>EV50J96A</b>	Microchip AVR	ATTINY3217	1
<b>DM164151</b>	Microchip AVR	AVR128DA48	1
<b>DM330028-2</b>	Microchip PIC	DSPIC33CH512MP508	2
<b>DM330030</b>	Microchip PIC	DSPIC33CK256MP508	2
<b>DM164137</b>	Microchip PIC	PIC16F18446	1
<b>EV35F40A</b>	Microchip PIC	PIC16F15276	2
<b>DM164136</b>	Microchip PIC	PIC18F47Q10	2
<b>DM164150</b>	Microchip PIC	PIC18F57Q43	1
<b>DM240004</b>	Microchip PIC	PIC24FJ128GA204	1
<b>DM240016</b>	Microchip PIC	PIC24FJ256GA705	2
<b>DM240017</b>	Microchip PIC	PIC24FJ128GL306	5
<b>DM240018</b>	Microchip PIC	PIC24FJ512GU410	3
<b>DM320101</b>	Microchip PIC	PIC32MM0064GPL036	1
<b>DM320103</b>	Microchip PIC	PIC32MX470F512H	2
<b>DM320104-BNDL</b>	Microchip PIC	MRF24WN0MA, PIC32MZ2048EFM100	3
<b>DM320107</b>	Microchip PIC	PIC32MM0256GPM064	2
<b>DM320209</b>	Microchip PIC	PIC32MZ2048EFM144	1
<b>DT100113</b>	Microchip PIC	PIC32MK0512MCJ064	4
<b>EV12F11A</b>	Microchip PIC	WFI32E01PC	3
<b>EV31E34A</b>	Microchip PIC	PIC32MK1024MCM100	4
<b>EV14C17A</b>	Microchip ARM	ATSAME51J20A	-
<b>EV78Y10A</b>	Microchip ARM	ATSAMG55J19	4
<b>DM320210</b>	Microchip ARM	ATSAME54P20A, MCP9808	3
<b>EV15N46A</b>	Microchip PIC	PIC32CM1216MC00048	1

**Microchip AVR-BLE / PIC-BLE Development Boards**



Manufacturer : MICROCHIP TECHNOLOGY  
 Kind of module : BLE, Bluetooth  
 Interface : ADC; I2C; PWM; SPI; UART; USB 2.0  
 Kind of connector : CR2032;  
 mikroBUS socket;  
 USB B micro

Features : integrated programmer/debugger  
 Application : IoT, environment monitoring

Symbol	Manufacturer's symbol	Components
<b>AVR-BLE</b>	DT100111	ATECC608A, ATMEGA3208, BMA253, MCP9844, RN4870, SST25PF040CT
<b>PIC-BLE</b>	DT100112	ATECC608A, BMA253, MCP9844, PIC16LF18456, RN4870, SST25PF040CT

**Microchip IoT Development Boards**

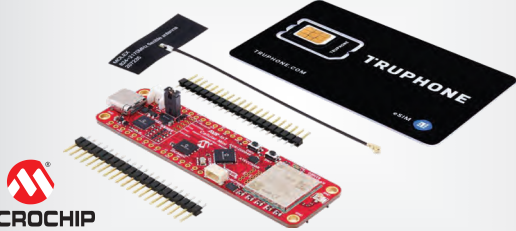


Manufacturer : MICROCHIP TECHNOLOGY  
 Kind of module : WIFI  
 Interface : ADC; I2C; PWM; SPI; UART; USB 2.0  
 Features : integrated programmer/debugger  
 Kind of connector : mikroBUS socket;  
 USB B micro

Application : for IoT application - Google cloud

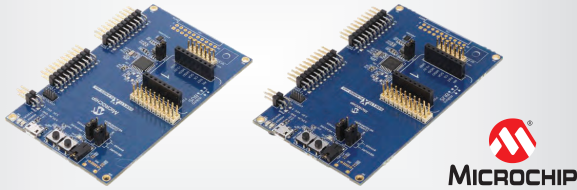
Symbol	Manufacturer's symbol	Components
<b>AVR-IOT</b>	AC164160	ATECC608A, ATMEGA4808, ATWINC1510, MCP73871, MCP9808
<b>PIC-IOT</b>	AC164164	ATECC608A, ATWINC1510, MCP73871, MCP9808, PIC24FJ128GA705
<b>EV75S95A</b>	EV75S95A	ATECC608A, ATWINC1510, MCP73871, MCP9808, SAMD21G18

**AVR-IoT Cellular Mini made by MICROCHIP**



**Symbol** Manufacturer Manufacturer's symbol  
**EV70N78A** MICROCHIP TECHNOLOGY EV70N78A  
**Components** : 25CSM04, ATECC608B, AVR128DA48, MCP9808, VEML3328  
**Interface** : GPIO; I2C; SPI; USART; USB  
**Kind of connector** : SIM;  
 U.FL;  
 USB C  
**Kit contents** : antenna;  
 SIM card;  
 header strips;  
 prototype board

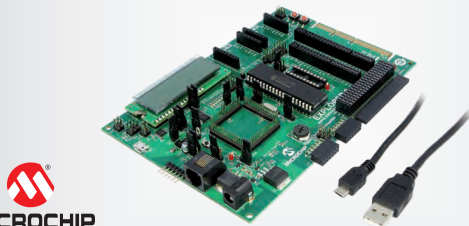
**XPRO series development kits by MICROCHIP TECHNOLOGY**



Manufacturer : MICROCHIP TECHNOLOGY

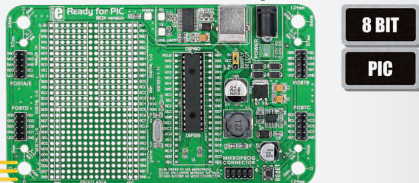
Symbol	Architecture	Components	Number of add-on connectors
ATTINY817-XPRO	AVR	ATTINY817	2
ATSAM4E-XPRO	Cortex M4	SAM4E16	3
ATSAM4L8-XPRO	Cortex M4	SAM4LC8CA	3
ATSAM4S-XPRO	Cortex M4	SAM4SD32	3
ATSAMB11-XPRO	Cortex M0	SAMB11G18A	2
ATSAMC21-XPRO	Cortex M0+	SAMC21J18A	4
ATSAMD11-XPRO	Cortex M0+	SAMD11D14A	1
ATSAMD20-XPRO	Cortex M0+	SAMD20J18	3
ATSAMD21-XPRO	Cortex M0+	SAMD21J18A	3
ATSAMG55-XPRO	Cortex M4	SAMG55J19A	3
ATSAML21-XPRO-B	Cortex M0+	SAML21J18B	3
ATSAML22-XPRO-B	Cortex M0+	ATECC508A, SAML22N18A	3
DM320204	Cortex M23	ATSAML10E16A-AU	3
DM320205	Cortex M23	ATSAML11E16A-AU	3

**EXPLORER 8 development board made by MICROCHIP TECHNOLOGY**



**Symbol** Manufacturer Manufacturer's symbol Family Components  
**DM160228** MICROCHIP TECHNOLOGY DM160228 PIC16 PIC16F1719  
**Interface** : RS232; USB  
**Kind of connector** : pin strips;  
 ICSP;  
 mikroBUS socket;  
 PICTail;  
 Pmod socket;  
 USB B mini  
**Features** : microcontroller I/O lines lead to goldpin connectors;  
 analog adjustment potentiometer

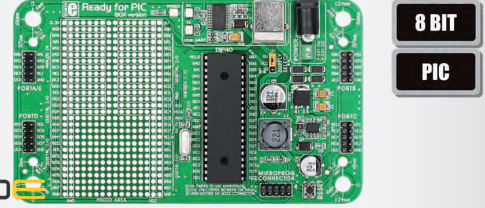
**MIKROE Ready for PIC Board development kit**



**Symbol** Manufacturer Manufacturer's symbol Family Components  
**MIKROE-766** MIKROE READY FOR PIC BOARD PIC18 PIC18F45K22  
**Interface** : UART; USB

Kind of connector : pin header;  
 USB B  
**Features** : prototyping area

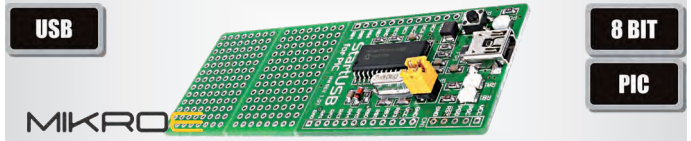
**MIKROE Ready for PIC (DIP28) development kit**



**Symbol** Manufacturer Manufacturer's symbol Family Components  
**MIKROE-1280** MIKROE READY FOR PIC (DIP28) PIC18 PIC18F25K22  
**Interface** : UART; USB  
**Kind of connector** : ICSP;  
 USB B  
**Features** : prototyping area

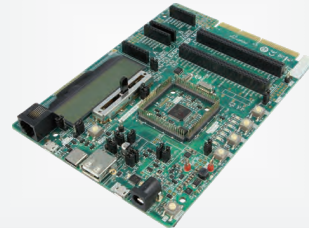
Related articles:  
**Symbol** Product description  
**MIKROE-1350** Case:grey

**MIKROE StartUSB development kit for PIC**



**Symbol** Manufacturer Manufacturer's symbol Family Components  
**MIKROE-647** MIKROE STARTUSB FOR PIC PIC18 PIC18F2550  
**Kind of connector** : USB B mini  
**Features** : prototyping area  
**Kit contents** : prototype board

**EXPLORER 16/32 development board by MICROCHIP TECHNOLOGY**



**Symbol** Manufacturer Manufacturer's symbol Family  
**DM240001-3** MICROCHIP TECHNOLOGY DM240001-3 DSPIC, PIC24, PIC32  
**Components** : PIC24FJ1024GB610, TC1047A  
**Interface** : GPIO; I2C; JTAG; UART  
**Kind of connector** : ICSP;  
 mikroBUS socket;  
 PICTail Plus;  
 Pmod socket;  
 USB A;  
 USB C  
**Features** : analog adjustment potentiometer;  
 integrated programmer/debugger

**PIC32MZ EF development tools made by MICROCHIP TECHNOLOGY**



Manufacturer : MICROCHIP TECHNOLOGY  
**Symbol** Manufacturer's symbol Family Components  
**DM320007** DM320007 PIC32 PIC32MZ2048EFH144  
**DM320007-C** DM320007-C PIC32 PIC32MZ2048EFM144  
**Interface** : Ethernet; I2C; UART; USB Host; USB OTG  
**Kind of connector** : Hirose FX10A-168P-SV1(71);  
 pin header;  
 RJ45;  
 USB A;  
 USB B micro;  
 USB B mini x2

cont. on the next page

**PIC32MZ EF development tools made by MICROCHIP TECHNOLOGY (cont.)**

- Features : microcontroller I/O lines lead to goldpin connectors;  
I/O lines led to Hirose connector;  
4Gb Flash memory
- Kit contents : Ethernet cable;  
USB A - USB B micro cable;  
USB A - USB B mini cable x2;  
prototype board;  
board with LAN8740A PHY

**MICROCHIP TECHNOLOGY Ethernet development kit for PIC32 microcontrollers**

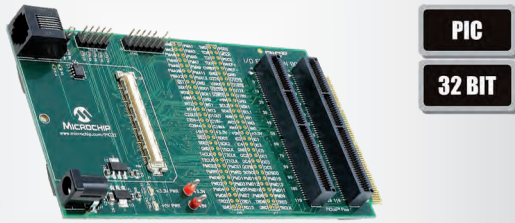


<b>Symbol</b>	Manufacturer	Manufacturer's symbol
<b>DM320004-2</b>	MICROCHIP TECHNOLOGY	DM320004-2
Components	: LAN8740, PIC32MX795F512L	
Features	: ethernet 10/100Base-T; I/O lines led to Hirose connector; USB host/device; integrated programmer/debugger	
Kind of connector	: Hirose FX10A-120P/12-SV1(71); RJ45 magnetically shielded; USB A; USB B micro	
Kit contents	: Ethernet cable; USB A - USB B micro cable; USB A - USB B mini cable; prototype board; board with LAN8740 PHY	

Related articles:

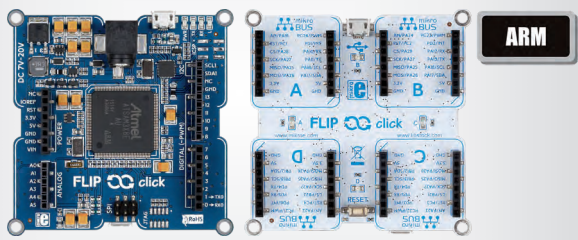
<b>Symbol</b>	Product description
<b>DM320002</b>	Dev.kit:Microchip PIC;PIC32;Add-on connectors:2

**MICROCHIP TECHNOLOGY development kit PIC32 I/O Expansion Board**



<b>Symbol</b>	Manufacturer	Manufacturer's symbol
<b>DM320002</b>	MICROCHIP TECHNOLOGY	DM320002
Family	: PIC32	
Kind of connector	: Hirose FX10A-120P/12-SV1(71); ICSP; JTAG; PICtail Plus	
Add-on connectors	: 2	
Features	: microcontroller I/O lines lead to goldpin connectors	
Related articles:		
<b>Symbol</b>	Product description	
<b>PIC32-SK</b>	Dev.kit:Microchip PIC;PIC32	

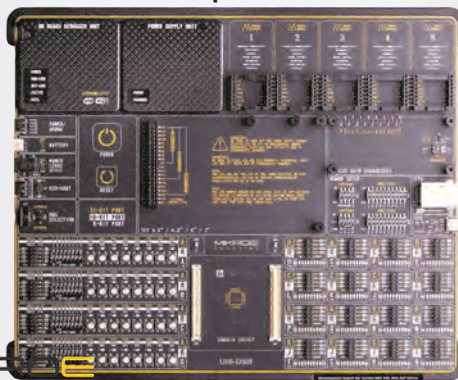
**MIKROE Flip & Click development kits**



Manufacturer	: MIKROE	
Components	: ATSAM3X8E	
Interface	: GPIO; I2C; SPI; UART; USB	
Kind of connector:		
pin strips	mikroBUS socket	mikroBUS socket x4
USB B micro x2	supply	

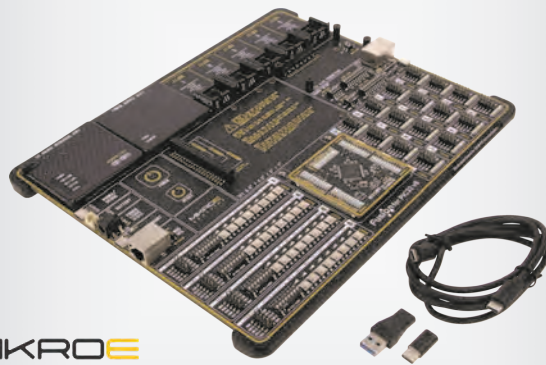
<b>Symbol</b>	Features
<b>MIKROE-1984</b>	microcontroller I/O lines lead to goldpin connectors
<b>MIKROE-2236</b>	pre-installed Zerynth

**MIKROE UNI-DS v8 development kit**



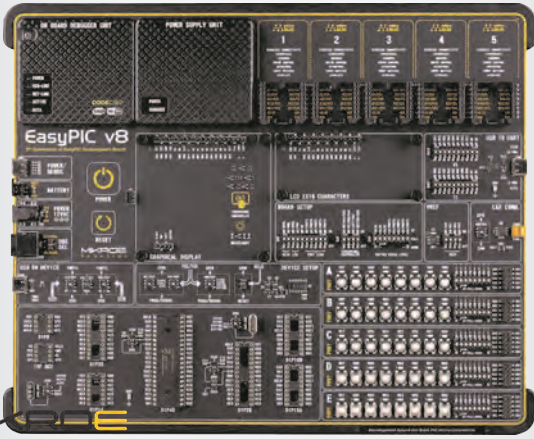
Manufacturer	: MIKROE	
<b>Symbol</b>	Manufacturer's symbol	Associated circuits
<b>MIKROE-5157</b>	UNI-DS V8	ARM; AVR; dsPIC; dsPIC33; PIC; PIC24; PIC32
Development kit	: universal	
Kind of connector	: Hirose 2x168; pin strips; mikroBUS socket x5; RJ45; USB; supply	
Kit contents	: USB C - USB A adapter; micro USB - USB C adapter; manual; USB cable; prototype board	

**MIKROE Fusion v8 development kits for PIC microcontrollers**



Manufacturer	: MIKROE	
<b>Symbol</b>	Manufacturer's symbol	Components
<b>MIKROE-4548</b>	FUSION FOR PIC V8 PIC18F97J94	PIC18F97J94
<b>MIKROE-4372</b>	FUSION FOR PIC32 V8 + PIC32MX795F512L	PIC32MX795F512L
<b>MIKROE-4665</b>	FUSION FOR PIC V8 WITH DSPIC33EP512MU814	dsPIC33EP512MU814
<b>MIKROE-4666</b>	FUSION FOR PIC V8 WITH PIC24EP512GU814	PIC24EP512GU814
Interface	: CAN; UART; USB; WIFI	
Features	: microcontroller I/O lines lead to goldpin connectors; integrated programmer/debugger	
Kind of connector	: Hirose 2x168; pin strips; LCD; mikroBUS socket x5; RJ45; USB C; supply	
Kit contents	: USB C - USB A adapter; micro USB - USB C adapter; manual; USB cable; prototype board	
Associated circuits:		
	— dsPIC ( <b>MIKROE-4548</b> , <b>MIKROE-4665</b> , <b>MIKROE-4666</b> )	
	— PIC ( <b>MIKROE-4548</b> , <b>MIKROE-4665</b> , <b>MIKROE-4666</b> )	
	— PIC32 ( <b>MIKROE-4372</b> )	

**MIKROE EasyPIC v8 development kits for PIC microcontrollers**



Manufacturer : MIKROE

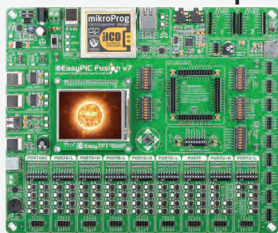
Symbol	Manufacturer's symbol	Components
MIKROE-3614	EASYPIC V8	PIC18F47K42
MIKROE-4511	EASYPIC V8 FOR DSPIC30	
MIKROE-3808	EASYPIC PRO V8 DEVELOPMENT SYSTEM	PIC18F97J94
MIKROE-4750	EASYPIC V8 FOR PIC24/DSPIC33	PIC24F16KA102
Symbol	Associated circuits	Interface
MIKROE-3614	PIC10F; PIC12F; PIC16F; PIC18F	CAN; GPIO; UART; USB; WiFi
MIKROE-4511	dsPIC30	CAN; GPIO; LIN; UART; USB; WiFi
MIKROE-3808	PIC16F; PIC16LF; PIC18F	Ethernet; UART; USB; WiFi
MIKROE-4750	dsPIC33; PIC24	CAN; GPIO; LIN; UART; USB; WiFi

Kind of connector:

- DIP14 (MIKROE-3614, MIKROE-4750)
- DIP18 (MIKROE-3614, MIKROE-4511, MIKROE-4750)
- DIP20 (MIKROE-3614, MIKROE-4750)
- DIP28 (MIKROE-3614, MIKROE-4511, MIKROE-4750)
- DIP40 (MIKROE-3614, MIKROE-4511)
- DIP8 (MIKROE-3614)
- Hirose 2x168 (MIKROE-3808)
- pin strips
- LCD
- mikroBUS socket x5
- RJ12 (MIKROE-3614)
- RJ45 (MIKROE-4511, MIKROE-4750, MIKROE-3808)
- USB (MIKROE-4511, MIKROE-4750)
- USB C (MIKROE-3614, MIKROE-3808)
- screw terminal (MIKROE-3614, MIKROE-4511, MIKROE-4750)
- supply

Features : real time debugger;  
microcontroller I/O lines lead to goldpin connectors;  
integrated programmer/debugger

**MIKROE EasyPIC FUSION v7 development kit**



16 BIT

32 BIT

PIC

dsPIC

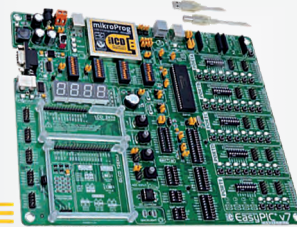
Manufacturer : MIKROE

Symbol	Manufacturer's symbol	Components	Family
MIKROE-1205	EASYPIC FUSION V7	VS1053	DSPIC, PIC24, PIC32
Interface	: CAN; Ethernet; UART; USB OTG		
Kind of connector	: ICSP; microSD; mikroBUS socket; RJ45 magnetically shielded		

Add-on connectors : 2

Features : buzzer;  
joystick - 5 positions;  
analog adjustment potentiometer;  
integrated programmer/debugger

**MIKROE EasyPIC V7 V7 development kit**



8 BIT

PIC

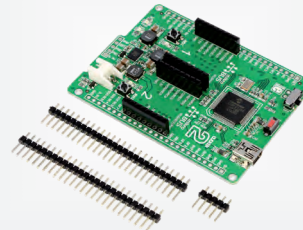
Symbol	Manufacturer	Manufacturer's symbol	Components
MIKROE-798	MIKROE	EASYPIC V7	PIC18F45K22
MIKROE-4459	MIKROE	EASYPIC V7A	PIC18F45K22
MIKROE-4820	MIKROE	EASYPIC PRO V7A	PIC18F45K22

Symbol	Associated circuits	Interface
MIKROE-798	PIC10F; PIC12F; PIC16F; PIC18F	RS232; UART; USB
MIKROE-4459	PIC10F; PIC12F; PIC16F; PIC18F	RS232; UART; USB
MIKROE-4820	PIC16; PIC18F	Ethernet; I2C; RS232; SPI; UART; USB
Symbol	Kit contents	
MIKROE-798	documentation; USB cable; DVD disc; prototype board	
MIKROE-4459	documentation; USB cable; DVD disc; prototype board	
MIKROE-4820	USB C - USB A adapter; documentation; USB cable; prototype board	

Related articles:

Symbol	Product description
MIKROE-240	Display;Display:graphical;LCD;Resolution:128x64;touch panel
MIKROE-485	Scriber;for resistive touch panels
MIKROE-511	Connection cable;female-female;PIN:1;150mm;Pcs:10
MIKROE-512	Connection cable;male-female;PIN:1;150mm;Pcs:10
MIKROE-513	Connection cable;male-male;PIN:1;150mm;Pcs:10

**MIKROE PIC clicker development kits**



Manufacturer : MIKROE

Symbol	Manufacturer's symbol	Family	Components
MIKROE-1487	PIC CLICKER	PIC18	PIC18F47J53
MIKROE-2584	CLICKER 2 FOR PIC18FK	PIC18	PIC18F67K40
MIKROE-1684	CLICKER 2 FOR PIC18FJ	PIC18	PIC18F87J50
MIKROE-1717	CLICKER 2 FOR PIC32MX	PIC32	PIC32MX460F512L
MIKROE-2788	PIC32MZ CLICKER	PIC32	PIC32MZ1024EFH064
MIKROE-2800	CLICKER 2 FOR PIC32MZ	PIC32	PIC32MZ2048EFH144
MIKROE-1907	6LOWPAN CLICKER	PIC32	CA-8210, PIC32MX470F512H
MIKROE-2547	CLICKER 2 FOR PIC24	PIC24	LTC3586, PIC24FJ1024GB610
MIKROE-2567	CLICKER 2 FOR DSPIC33	DSPIC33	DSPIC33EP512MU810, LTC3586

**Development kit for ATSAM5D27-SOM1 firmy MICROCHIP TECHNOLOGY module made by MICROCHIP TECHNOLOGY**

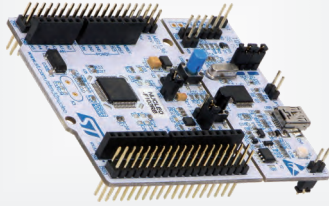


MIKROE

Symbol	Manufacturer	Manufacturer's symbol	Development kit
EV26C77A	MICROCHIP TECHNOLOGY	EV26C77A	Microchip ARM
Family	: ATSAM5D2		
Architecture	: Cortex A5		
RAM memory capacity	: 512MB		
Kind of memory	: DDR3L		
Ethernet category	: 10/100/1000Base-T		
Interface	: CAN FD; EtherCAT; Ethernet x3; GPIO; JTAG; USB x3		
Components	: 24AA025E48, ATSAM5D27C, KSZ8563, LAN7850, LAN9252, SST26VF064B, USB2534		
Kind of connector	: JTAG; mikroBUS socket x3; RJ45 x3; SD; USB A socket x4; USB micro; supply		
Kit contents	: cable USB A plug - USB B micro plug; prototype board		

ST microcontrollers

STM32 NUCLEO development sets by ST MICROELECTRONICS

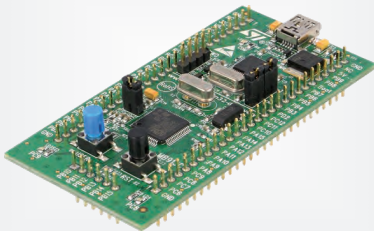


STM32

Manufacturer : STMicroelectronics  
 Development kit : STM32  
 Features : microcontroller I/O lines lead to goldpin connectors; integrated programmer/debugger

Symbol	Components	Kind of connector
NUCLEO-F030R8	STM32F030R8T6	pin strips; pin strips; Morpho plug; USB B mini
NUCLEO-F031K6	STM32F031K6T6	pin strips; pin strips; Morpho plug; USB B mini
NUCLEO-F042K6	STM32F042K6T6	pin strips; pin strips; Morpho plug; USB B mini
NUCLEO-F070RB	STM32F070RBT6	pin strips; pin strips; Morpho plug; USB B mini
NUCLEO-F072RB	STM32F072RBT6	pin strips; pin strips; Morpho plug; USB B mini
NUCLEO-F091RC	STM32F091RCT6	pin strips; pin strips; Morpho plug; USB B mini
NUCLEO-F103RB	STM32F103RBT6	pin strips; pin strips; Morpho plug; USB B mini
NUCLEO-F207ZG	STM32F207ZGT6	pin strips; pin strips; Morpho plug; RJ45; USB B micro
NUCLEO-F302R8	STM32F302R8T6	pin strips; pin strips; Morpho plug; USB B mini
NUCLEO-F303K8	STM32F303K8T6	pin strips; pin strips; Morpho plug; USB B mini
NUCLEO-F303RE	STM32F303RET6	pin strips; pin strips; Morpho plug; USB B mini
NUCLEO-F303ZE	STM32F303ZET6	pin strips; pin strips; Morpho plug; USB B mini
NUCLEO-F334R8	STM32F334R8T6	pin strips; pin strips; Morpho plug; USB B mini
NUCLEO-F401RE	STM32F401RET6	pin strips; pin strips; Morpho plug; USB B mini
NUCLEO-F410RB	STM32F410RBT6	pin strips; pin strips; Morpho plug; USB B mini
NUCLEO-F411RE	STM32F411RET6	pin strips; pin strips; Morpho plug; USB B mini
NUCLEO-F412ZG	STM32F412ZGT6	pin strips; pin strips; Morpho plug; USB B micro
NUCLEO-F413ZH	STM32F413ZHT6	pin strips; pin strips; Morpho plug; USB B micro
NUCLEO-F429ZI	STM32F429ZIT6	pin strips; pin strips; Morpho plug; USB B micro
NUCLEO-F446RE	STM32F446RET6	pin strips; pin strips; Morpho plug; USB B mini
NUCLEO-F446ZE	STM32F446ZET6	pin strips; pin strips; Morpho plug; USB B micro
NUCLEO-F722ZE	STM32F722ZET6	pin strips; pin strips; Morpho plug; USB B micro
NUCLEO-F746ZG	STM32F746ZGT6	pin strips; pin strips; Morpho plug; RJ45; USB B micro
NUCLEO-F767ZI	STM32F767ZIT6	pin strips; pin strips; Morpho plug; RJ45; USB B micro
NUCLEO-G070RB	STM32G070RBT6	pin strips; pin header; USB B micro
NUCLEO-G071RB	STM32G071RBT6	pin strips; pin header; USB B micro
NUCLEO-G0B1RE	STM32G0B1RET6	pin strips; pin header; USB B micro
NUCLEO-L011K4	STM32L011K4T6	pin strips; USB B micro
NUCLEO-L031K6	STM32L031K6T6	pin strips; USB B micro
NUCLEO-L053R8	STM32L053R8T6	pin strips; pin strips; Morpho plug; USB B mini
NUCLEO-L073RZ	STM32L073RZT6	pin strips; pin strips; Morpho plug; USB B mini
NUCLEO-L152RE	STM32L152RET6	pin strips; pin strips; Morpho plug; USB B mini
NUCLEO-L433RC-P	STM32L433RCT6P	pin strips; pin strips; Morpho plug; USB B micro
NUCLEO-L452RE	STM32L452RET6	pin strips; pin strips; Morpho plug; USB B mini
NUCLEO-L452RE-P	STM32L452RET6P	pin strips; pin strips; Morpho plug; USB B mini
NUCLEO-L476RG	STM32L476RGT6	pin strips; pin strips; Morpho plug; USB B mini
NUCLEO-L496ZG	STM32L496ZGT6	pin strips; pin strips; Morpho plug; USB B micro
NUCLEO-L496ZG-P	STM32L496ZGT6P	pin strips; pin strips; Morpho plug; USB B micro
NUCLEO-L4R5ZI	STM32L4R5ZIT6	pin strips; pin strips; Morpho plug; USB B micro

STM8 & STM32 DISCOVERY development sets by ST MICROELECTRONICS

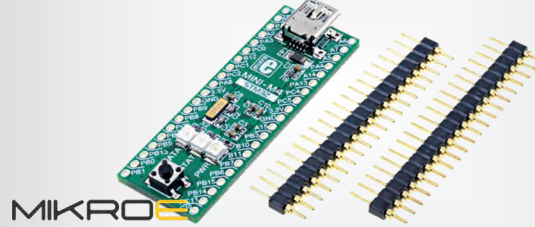


Manufacturer : STMicroelectronics  
 Development kit :  
 — STM32 (STM32xxx, NUCLEO-G031K8, B-G431B-ESC1, B-G474E-DPOW1)  
 — STM8 (STM8xxxDISCOVERY)

Symbol	Manufacturer's symbol	Components
STM32VLDISCOVERY	STM32VLDISCOVERY	STM32F100RBT6B
STM32F0DISCOVERY	STM32F0DISCOVERY	STM32F051R8T6
STM32F3DISCOVERY	STM32F3DISCOVERY	L3GD20, LSM303DLHC, STM32F303VCT6
STM8A-DISCOVERY	STM8A-DISCOVERY	STM8AF5288T
STM8L-DISCOVERY	STM8L-DISCOVERY	STM8L152C6T6
STM8S-DISCOVERY	STM8S-DISCOVERY	STM8S105C6T6
STM8SVLDISCOVERY	STM8SVLDISCOVERY	STM8S003K3T6
STM32F469I-DISCO	STM32F469I-DISCO	STM32F469NIH6
STM32F429I-DISC1	STM32F429I-DISC1	STM32F429ZIT6
STM32F407G-DISC1	STM32F407G-DISC1	LIS3DSH, STM32F407VGT6
STM32F769I-DISCO	STM32F769I-DISCO	STM32F769NIH6
STM32F0308-DISCO	32F0308DISCOVERY	STM32F030R8T6
STM32F072B-DISCO	32F072BDISCOVERY	STM32F072RBT6
STM32F3348-DISCO	32F3348DISCOVERY	STM32F334C8T6
STM32F411E-DISCO	32F411EDISCOVERY	STM32F334C8T6
STM32F412G-DISCO	32F412GDISCOVERY	STM32F412ZGT6, LCD display

Symbol	Manufacturer's symbol	Components
STM32F413H-DISCO	32F413HDISCOVERY	ISM43362_M3x_I44, STM32F413ZHT6, LCD display
STM32F723E-DISCO	32F723EDISCOVERY	STM32F723IEK6T6, LCD display
STM32F746G-DISCO	32F746GDISCOVERY	STM32F746ZGT6, LCD display
STM32L0538-DISCO	32L0538DISCOVERY	2" e-paper display, STM32L053C8T6
STM32L152C-DISCO	32L152CDISCOVERY	STM32L152RCT6, LCD display
STM32L496G-DISCO	32L496GDISCOVERY	STM32L496AGI6T6, LCD display
STM32G0316-DISCO	STM32G0316-DISCO	STM32G031
NUCLEO-G031K8	NUCLEO-G031K8	STM32G031
B-G431B-ESC1	B-G431B-ESC1	STM32G431
B-G474E-DPOW1	B-G474E-DPOW1	STM32G474

MIKROE MINI for STM32 development kits

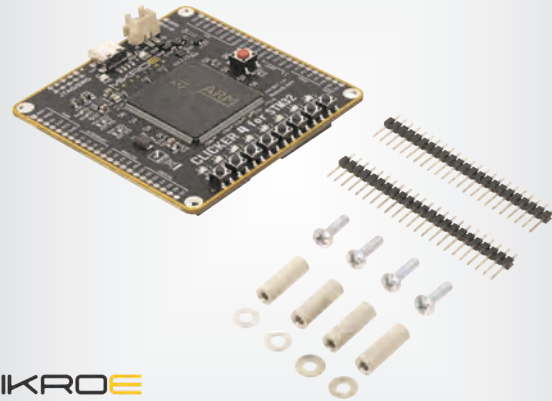


STM32

Manufacturer : MIKROE  
 Features : microcontroller I/O lines lead to goldpin connectors

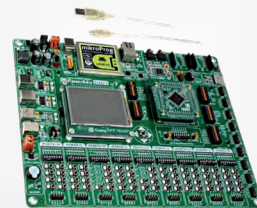
Symbol	Manufacturer's symbol	Components
MIKROE-1518	MINI-M0 FOR STM32	STM32F051R8T6
MIKROE-1367	MINI-M4 FOR STM32	STM32F415RG

MIKROE development kits Clicker for ST microcontrollers



Symbol	Manufacturer	Manufacturer's symbol	Components
MIKROE-1675	MIKROE	STM32 M4 CLICKER	STM32F415RGT6
MIKROE-1685	MIKROE	CLICKER 2 FOR STM32	STM32F407VGT6
MIKROE-4412	MIKROE	CLICKER 4 FOR STM32	STM32F767BI

MIKROE EasyMX PRO v7/v7a development kit for STM32®



STM32

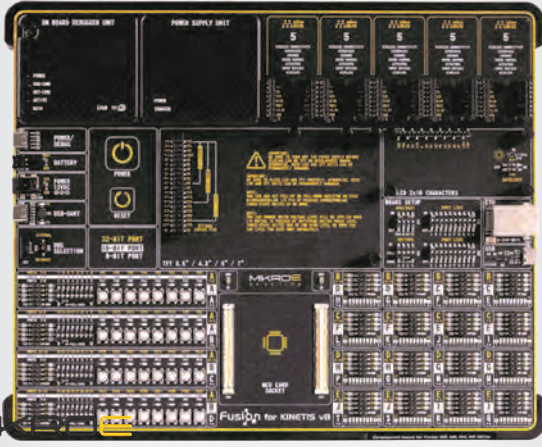
Manufacturer : MIKROE  
 Development kit : ARM ST  
 Add-on connectors : 2

Symbol	Manufacturer's symbol	Components
MIKROE-1099	EASYMX PRO V7 FOR STM32	DS1820, LM35, STM32F107VCT6, VS1053
MIKROE-5200	EASYMX PRO V7A FOR STM32	DS1820, LM35, STM32F207VGT6, VS1053

Related articles:

Symbol	Product description
MIKROE-1103	Multiaadapter;Comp:STM32F107VCT6;prototype board
MIKROE-1104	Multiaadapter;Comp:STM32F207VGT6;prototype board
MIKROE-1105	Multiaadapter;Comp:STM32F407VGT6;prototype board
MIKROE-485	Scriber;for resistive touch panels
MIKROE-511	Connection cable;female-female;PIN:1;150mm;Pcs:10
MIKROE-512	Connection cable;male-female;PIN:1;150mm;Pcs:10
MIKROE-513	Connection cable;male-male;PIN:1;150mm;Pcs:10

**MIKROE development kits Fusion v8 for ST microcontrollers**

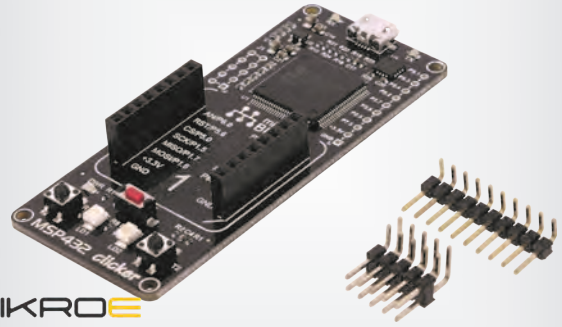


Symbol	Manufacturer	Manufacturer's symbol	Family
<b>MIKROE-3511</b>	MIKROE	FUSION FOR STM32 V8	STM32F4
<b>MIKROE-3512</b>	MIKROE	FUSION FOR ARM V8 STM32F407ZG	ARM

Components : STM32F407ZG  
 Interface : CAN; UART; USB; WiFi  
 Features : microcontroller I/O lines lead to goldpin connectors; integrated programmer/debugger  
 Kind of connector : Hirose 2x168; mikroBUS socket x5; RJ45; USB C; supply  
 Kit contents : manual; USB C cable; prototype board

Kit contents : prototype board

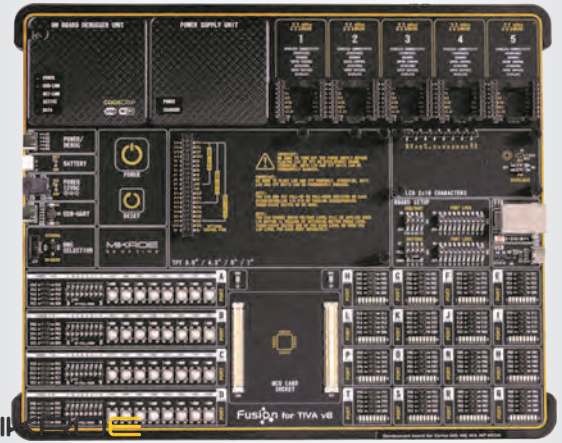
**MIKROE development kits CLICKER for TI microcontrollers**



Symbol	Manufacturer	Manufacturer's symbol	Add-on connectors
<b>MIKROE-2502</b>	MIKROE	CLICKER 2 FOR MSP432	2
<b>MIKROE-2503</b>	MIKROE	MSP432 CLICKER	1

Components : MSP432P401R  
 Interface : GPIO; I2C; PWM; SPI; UART; USB  
 Features : microcontroller I/O lines lead to goldpin connectors  
 Kit contents : documentation; prototype board  
 Kind of connector : pin strips; mikroBUS socket; USB B micro

**MIKROE development kits Fusion v8 for TI microcontrollers**



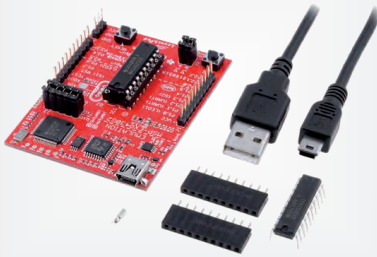
Manufacturer : MIKROE

Symbol	Manufacturer's symbol	Components
<b>MIKROE-3514</b>	FUSION FOR TIVA V8	TM4C129XNCZAD
<b>MIKROE-3516</b>	FUSION FOR ARM V8 TM4C129XNCZAD	TM4C129XNCZAD
<b>MIKROE-3518</b>	FUSION FOR ARM V8 MSP432P401R	MSP432P401R

Interface : CAN; UART; USB; WiFi  
 Features : microcontroller I/O lines lead to goldpin connectors; integrated programmer/debugger  
 Kind of connector : Hirose 2x168; mikroBUS socket x5; RJ45; USB C; supply  
 Kit contents : manual; USB C cable; prototype board

**TI microcontrollers**

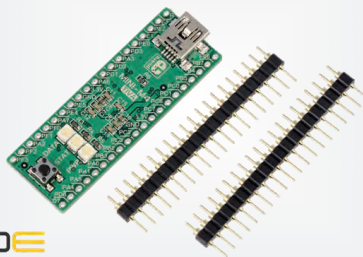
**Development kits for MSP430 microcontrollers made by Texas Instruments**



Manufacturer : TEXAS INSTRUMENTS  
 Development kit: — TI MSP430

Symbol	Manufacturer's symbol	Components
<b>MSP-EXP430F5529LP</b>	MSP-EXP430F5529LP	MSP430F5529
<b>MSP-EXP430F5438</b>	MSP-EXP430F5438	MSP430P3251PM
<b>MSP-EXP430FR4133</b>	MSP-EXP430FR4133	MSP430FR4133
<b>MSP-EXP430FR5739</b>	MSP-EXP430FR5739	MSP430FR5739
<b>MSP-EXP430FR5994</b>	MSP-EXP430FR5994	MSP430FR5994
<b>MSP-EXP430G2ET</b>	MSP-EXP430G2ET	MSP430G2452IN20, MSP430G2553IN20

**MINI-M4 development board for TIVA-series microcontrollers**



Symbol	Manufacturer	Manufacturer's symbol	Components
<b>MIKROE-1595</b>	MIKROE	MINI-M4 FOR TIVA	TM4C123GH6PM
<b>MIKROE-1368</b>	MIKROE	MINI-M4 FOR STELLARIS	LX4F230H5QR
<b>MIKROE-2682</b>	MIKROE	MINI-M4 FOR MSP432	MSP432P401RIRGC

Kind of connector: — pin header  
 — USB B micro (**MIKROE-1368**, **MIKROE-2682**)  
 — USB B mini (**MIKROE-1595**)  
 Features : microcontroller I/O lines lead to goldpin connectors

**Arduino Development Kits**

**ARDUINO UNO development kits**



Manufacturer : ARDUINO

Symbol	Manufacturer's symbol	Components
<b>A000066</b>	ARDUINO UNO REV3	ATMEGA328
<b>A000073</b>	ARDUINO UNO SMD REV3	ATMEGA328
<b>K000007</b>	ARDUINO STARTER KIT ENGLISH	ATMEGA328


cont. on the next page

ARDUINO UNO development kits (cont.)

Symbol	Manufacturer's symbol	Components
K020007	ARDUINO STARTER KIT FRENCH	ATMEGA328
K030007	ARDUINO STARTER KIT SPANISH	ATMEGA328
K040007	ARDUINO STARTER KIT GERMAN	ATMEGA328
K110007	ARDUINO STARTER KIT - CHINESE	ATMEGA328
K120007	ARDUINO STARTER KIT - KOREAN	ATMEGA328
K090007	ARDUINO STARTER KIT JAPANESE	ATMEGA328
ABX00021	ARDUINO UNO WIFI REV2	ATECC608A, ATMEGA4808
ABX00062	ARDUINO UNO MINI LE	ATMEGA16U2, ATMEGA328P

Interface : GPIO; I2C; PWM; SPI; UART  
 Features : microcontroller I/O lines lead to goldpin connectors

ARDUINO MEGA development kit




**AVR**

Manufacturer : ARDUINO

Symbol	Manufacturer	Manufacturer's symbol	Components
A000067	ARDUINO	ARDUINO MEGA2560 REV3	ATMEGA2560

Interface : I2C; SPI; UART  
 Features : microcontroller I/O lines lead to goldpin connectors  
 Kind of connector : pin strips; ICSP; USB B; supply  
 Kit contents : prototype board

ARDUINO NANO IoT kits




Manufacturer : ARDUINO

Symbol	Manufacturer's symbol	Flash [B]	SRAM [kB]
A000005	ARDUINO NANO	32k	2
ABX00028	ARDUINO NANO EVERY	48k	6
ABX00027	ARDUINO NANO 33 IOT	256k	32
ABX00030	ARDUINO NANO 33 BLE	1M	256
ABX00031	ARDUINO NANO 33 BLE SENSE	1M	256
AKX00026	OPLA IOT STARTER KIT	256k	32
ABX00052	NANO RP2040 CONNECT WITHOUT HEADERS	16M	256

Symbol : A000005  
 Components : ATMEGA328, FT232R  
 Symbol : ABX00028  
 Components : ATMEGA4809, ATSAM11D14A  
 Symbol : ABX00027  
 Components : ATECC608A, ATSAM21G18A  
 Symbol : ABX00030  
 Components : LSM9DS1, NINA-B306  
 Symbol : ABX00031  
 Components : ADPS9960, HTS221, LPS22HB, LSM9DS1, MP34DT05, nRF52840  
 Symbol : AKX00026  
 Components : ABX00023, ATSAM21  
 Symbol : ABX00052  
 Components : NINA-W102, RP2040

ARDUINO MKR IoT kits

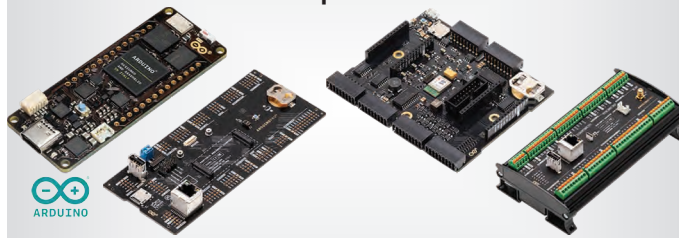


Manufacturer : ARDUINO

Flash memory capacity : 256kB  
 SRAM : 32kB

Symbol	Manufacturer's symbol	Components
ABX00004	ARDUINO MKR1000 WIFI	ATSAMW25H18
ABX00019	ARDUINO MKR NB 1500	ATSAMD21G18, SARA-R410M
ABX00022	ARDUINO MKR VIDOR 4000	ATSAMD21G18, NINA-W102
ABX00017	MKR WAN 1300 WITHOUT ANTENNA	ATSAMD21G18, CMWX1ZZABZ
ABX00029	ARDUINO MKR WAN 1310	ATECC508A, CMWX1ZZABZ
ABX00023	ARDUINO MKR WIFI 1010	ATSAMD21G18, NINA-W102
ABX00012	ARDUINO MKR ZERO	ATSAMD21G18A
GKX00006	MKR IOT BUNDLE	ATSAMD21G18A

ARDUINO Portenta development kits



Manufacturer : ARDUINO

Symbol	Manufacturer's symbol	Architecture
ABX00042	ARDUINO PORTENTA H7	Cortex M4, Cortex M7
ABX00046	PORTENTA H7 LITE CONNECTED	Cortex M4, Cortex M7
ABX00049	ARDUINO PORTENTA X8	Cortex A53, Cortex M4
ABX00043	PORTENTA MAX CARRIER	Cortex M4
AKX00032	ARDUINO PORTENTA MACHINE CONTROL	Cortex M4, Cortex M7
AKX00034	ARDUINO EDGE CONTROL	Cortex M4
ASX00031	ARDUINO PORTENTA BREAKOUT	-

Symbol	Components
ABX00042	ECC608, STM32H747XI
ABX00046	1DX, ECC608, PF1550, STM32H747XI
ABX00049	ADS7959, SE050C, STM32H747XI
ABX00043	CMWX1ZZABZ, SARA-R412M, STM32F405RG
AKX00032	ECC608, STM32H747XI
AKX00034	nRF52840

Symbol	Interface
ABX00042	ADC; DAC; Ethernet; SD; UART x4; USB
ABX00046	ADC x8; CAN; Ethernet 10/100Mbps; GPIO; I2C x3; I2S; MIPI-DSI2; PDM; PWM; SD; SPI; UART x4
ABX00049	ADC x8; Ethernet; GPIO; I2C x3; I2S; MIPI; MIPI-DSI; PCI; PWM; SD; SPI x2; UART x4; USB x2
ABX00043	CAN; I2C; microSD; PCIe; RJ45; RS232 / RS485 / RS422; USB; USIM
AKX00032	ADC; Bluetooth Low Energy; CAN; DAC; Ethernet; RS232 / RS485 / RS422; SD; UART; USB; WIFI
AKX00034	ADC; Bluetooth; GPIO; I2C; I2S; PDM; QDEC; QSPI; SPI; USB
ASX00031	Ethernet; I2C; JTAG; SPI; UART; USB

Symbol	Kind of connector
ABX00042	pin strips; USB C socket
ABX00046	2x80pin; solder pads; USB C socket
ABX00049	2x80pin; USB C
ABX00043	Jack 3,5mm x3; pin header; microSD; RJ11; RJ12; RJ45; SMA x2; USB A x2; supply
AKX00032	Grove; pin strips; RJ45; SMA; USB A socket; USB C socket; USB micro; snap-on
AKX00034	RTC battery; pin strips; microSD; USB micro
ASX00031	2x80pin; RTC battery; JTAG; microSD; RJ45; USB A; supply

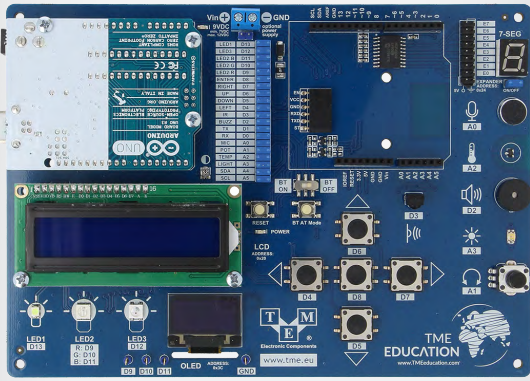
ARDUINO development kits for education

Manufacturer : ARDUINO

Symbol	Manufacturer's symbol	Architecture
AKX00022	ARDUINO ENGINEERING KIT REV2	Cortex M0+
AKX00027	EXPLORE IOT KIT	Cortex M0+
AKX00028	TINY MACHINE LEARNING KIT	Cortex M4
AKX00025	STUDENT KIT EN	AVR
T050002	ARDUINO BRACCIO ++	-

Symbol	Kit contents
AKX00022	mechanical parts; USB cable; camera; MATLAB license; Simulink license; prototype board; DC motor; stepper motor; motor x2
AKX00027	PIR motion sensor; soil moisture sensor; mechanical parts; connection cable; USB cable; prototype board
AKX00028	camera; cable USB A plug - USB B micro plug; prototype board; Arduino board
AKX00025	A000066; documentation; meter; USB cable; active and passive elements kit
T050002	manual; wire jumpers; extension board; robotic arm; servos; power supply

**Educational kit TME-EDU-ARD-2**



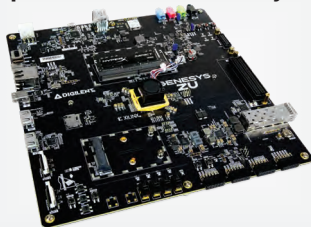
TME Education is a project founded to promote electronics and technology-related knowledge in regions, where the proper resources are difficult to access. The educational programme acts through supporting schools, conducting practical workshops and creating self-designed educational tools, just like TME-EDU-ARD-2. This Arduino Uno-based highly intuitive and handy device was created for beginners and intermediate programming learners. Thanks to a variety of embedded peripherals it is attractive to a vast group of users, regardless of their age or background. It is a perfect solution for students and for primary, secondary and tertiary school teachers. More information, exemplary codes and manual are available on [www.tmeeducation.com/arduino](http://www.tmeeducation.com/arduino).



<b>Symbol</b>	Development kit
<b>TME-EDU-ARD-2</b>	education Arduino
<b>Components</b>	: A000066, KPS-3227, MCP23008, MCP9701, TSOP2236, WS2818 RGB LED
<b>Display</b>	: 7-segment, LCD 2x16 characters, OLED (128x64)
<b>Kind of connector</b>	: pin strips; pin header; USB B; supply
<b>Interface</b>	: GPIO; I2C; IrDA; SPI; UART; USB
<b>Features</b>	: buzzer; temperature sensor; light sensor; electret microphone; potentiometer; contrast adjustment potentiometer
<b>Kit contents</b>	: documentation; USB A - USB B cable; prototype board

**FPGA circuits**

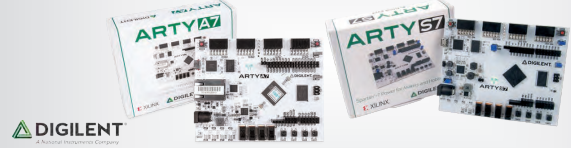
**Genesys development boards made by DIGILENT**



<b>Symbol</b>	Manufacturer	Manufacturer's symbol	Components
<b>410-383-5EV</b>	DIGILENT	GENESYS ZU-5EV	XCZU5EV-SFVC784-1-E
<b>Development kit</b>	: Xilinx		
<b>Kind of memory</b>	: DDR4 SODIMM		
<b>Capacity</b>	: 4GB		
<b>Features</b>	: I/O lines on pin header		
<b>Interface</b>	: Ethernet; USB 2.0 host; USB 3.1; WiFi		
<b>Kind of connector</b>	: FMC; microSD; miniPCIe; mSATA; Pmod socket x4; SIM		
<b>Application</b>	: HD video processing		

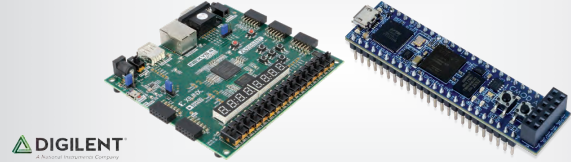
**Kit contents** : JTAG adapter;  
USB A - USB B micro cable;  
USB A - USB C cable;  
mains cable;  
prototype board;  
power supply

**Arty development boards by DIGILENT for FPGA**



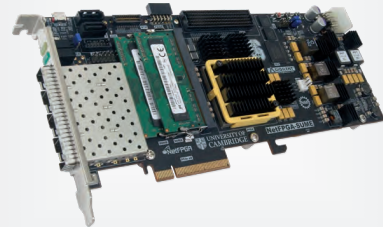
<b>Symbol</b>	Manufacturer	Manufacturer's symbol	Components
<b>410-352</b>	DIGILENT	ARTY S7-50	XC7S50-CSGA324
<b>410-319-1</b>	DIGILENT	ARTY A7-100T	XC7A100TCSG324-1
<b>410-319</b>	DIGILENT	ARTY A7-35T	XC7A35T-L1CSG324
<b>410-346-20</b>	DIGILENT	ARTY Z7-20	XC7Z020-1CLG400C
<b>Symbol</b>	Interface		
<b>410-352</b>	GPIO; UART; USB		
<b>410-319-1</b>	Ethernet; GPIO; UART; USB		
<b>410-319</b>	Ethernet; GPIO; I2C; JTAG; QSPI; SPI; UART; USB		
<b>410-346-20</b>	Ethernet; GPIO; HDMI; I2C; JTAG; QUAD SPI; SPI; UART; USB		
<b>Symbol</b>	Kind of connector		
<b>410-352</b>	pin strips; Pmod socket		
<b>410-319-1</b>	pin strips; Pmod socket x4		
<b>410-319</b>	pin strips; Pmod socket; RJ45; USB B micro		
<b>410-346-20</b>	HDMI x2; pin strips; Pmod socket; RJ45; USB A; USB B micro		

**Artix development boards made by DIGILENT for FPGA**



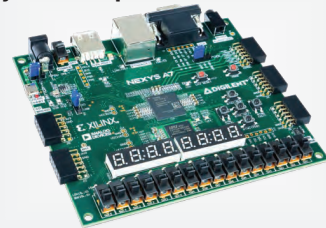
<b>Manufacturer</b> : DIGILENT			
<b>Symbol</b>	Manufacturer's symbol	Components	Family
<b>410-183P-KIT</b>	BASYS 3	XC7A35T-1CPG236C	Artix-7
<b>410-328-35</b>	CMOD A7-35T	XC7A35T-1CPG236C	Artix-7
<b>Symbol</b>	Interface		Kind of connector
<b>410-183P-KIT</b>	JTAG; UART; USB		Pmod socket; USB A; USB B mini; VGA
<b>410-328-35</b>	GPIO; JTAG; QUAD SPI; UART; USB		pin strips; Pmod socket; USB B micro

**Virtex development board by DIGILENT for FPGA**



<b>Symbol</b>	Manufacturer	Manufacturer's symbol	Components
<b>410-301P-KIT</b>	DIGILENT	NETFPGA-SUME	XC7V690T-FFG1761-3
<b>Development kit</b>	: Xilinx		
<b>Family</b>	: Virtex-7		
<b>Interface</b>	: Ethernet; GPIO; JTAG; SFP+ x4; UART; USB		
<b>Kind of connector</b>	: HPC FMC; PCIe; Pmod socket; QTH; SATA x2		
<b>Kit contents</b>	: USB A - USB B micro cable; prototype board		

**DIGILENT Nexys development kit for FPGA**



<b>Symbol</b>	Manufacturer	Manufacturer's symbol	Components
<b>410-292</b>	DIGILENT	NEXYS A7-100T	XC7A100T-1CSG324C
<b>410-292-1</b>	DIGILENT	NEXYS A7-50T FPGA TRAINER BOARD	XC7A50T-1CSG324C
<b>Display</b>	: 4-digit LED, double		

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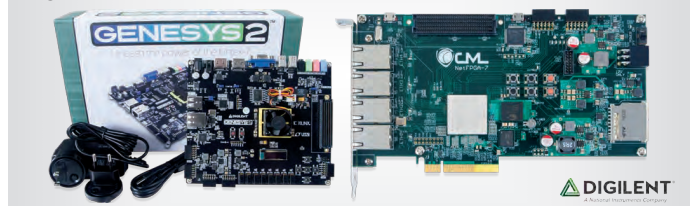
**DIGILENT Nexys development kit for FPGA (cont.)**

Interface : Ethernet; JTAG; UART; USB; VGA

Features : accelerometer;  
temperature sensor

Kind of connector: D-Sub 15pin; DC; Jack 3,5mm mono; pin header; Pmod socket x4; RJ45; USB B.

**Kintex development boards made by DIGILENT for FPGA**



Symbol	Manufacturer	Manufacturer's symbol	Components
410-300	DIGILENT	GENESYS 2	XC7K325T-2FFG900C
Family	: Kintex-7		
Development kit	: Xilinx		
Interface	: Ethernet; GPIO; JTAG; UART; USB device; USB Host		
Kind of connector	: DisplayPort; HDMI x2; Jack 3,5mm x4; Pmod socket; Pmod socket x5; RJ45 magnetically shielded; supply		
Features	: 512MB DDR3; socket for microSD cards; 32Mb SPI Flash Memory		
Kit contents	: USB A - USB B micro cable; prototype board		

**Zynq development boards made by DIGILENT for FPGA**

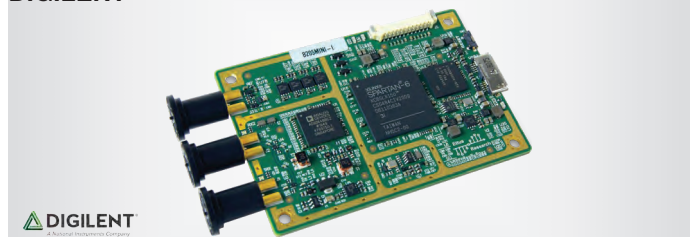


Manufacturer : DIGILENT  
Development kit : Xilinx

Symbol	Manufacturer's symbol	Components
410-248P-KIT	ZEDBOARD	XC7Z020-1CLG400C
410-351-10	ZYBO Z7-10	XC7Z010-1CLG400C
471-014	ZYBO Z7-10 + SDSOC	XC7Z010-1CLG400C
471-015	ZYBO Z7-20 + SDOC VOUCHER	XC7Z020-1CLG400C
471-015-ACAD	ZYBO Z7-20	XC7Z020-1CLG400C
410-370	CORA Z7: ZYNQ-7000 SINGLE CORE	XC7Z007S-1CLG400C
240-114-1	PYNQ-Z1+ ACCESSORY KIT	XC7Z020-1CLG400C
6003-410-017	PYNQ-Z1 PYTHON PRODUCTIVITY FOR ZYNQ	XC7Z020-1CLG400C

Symbol	Interface
410-248P-KIT	Ethernet; I2S; USB
410-351-10	CAN; Ethernet; GPIO; I2C; JTAG; MIPI-CSI2; QUAD SPI; SDIO; SPI; UART; USB OTG
471-014	CAN; Ethernet; GPIO; I2C; JTAG; MIPI-CSI2; QUAD SPI; SDIO; SPI; UART; USB OTG
471-015	CAN; Ethernet; GPIO; I2C; JTAG; MIPI-CSI2; QUAD SPI; SDIO; SPI; UART; USB OTG
471-015-ACAD	CAN; Ethernet; GPIO; I2C; JTAG; MIPI-CSI2; QUAD SPI; SDIO; SPI; UART; USB OTG
410-370	Ethernet; GPIO; JTAG; UART; USB
240-114-1	CAN; Ethernet; GPIO; I2C; JTAG; SDIO; SPI; UART; USB
6003-410-017	Ethernet; GPIO; HDMI; JTAG; UART; USB

**Development tools for data transmission made by DIGILENT**

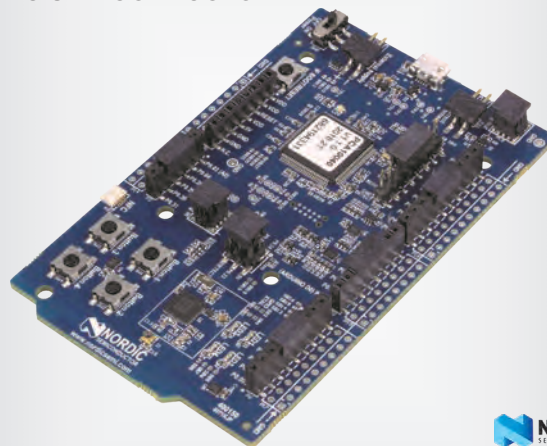


Manufacturer : DIGILENT  
Development kit : cognitive radio  
Components : AD9364, XC6SLX75

Symbol	Manufacturer's symbol	Interface
6002-410-022	ETTUS USRP B200MINI	GPIO; JTAG; PPS; USB 3.0
6002-410-023	ETTUS USRP B200	GPIO; JTAG
471-042	ETTUS USRP B200 WITH ENCLOSURE KIT	GPIO; JTAG
471-044	ETTUS USRP B200MINI WITH ENCLOSURE KIT	GPIO; JTAG; PPS; USB 3.0

**Communication**

**Development tools for Bluetooth transceivers by NORDIC SEMICONDUCTOR**

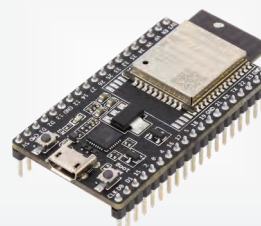


Manufacturer : NORDIC SEMICONDUCTOR  
Development kit : Bluetooth Low Energy

Symbol	Manufacturer's symbol	Components	Interface
NRF52-DK	NRF52-DK	NRF52832	GPIO
NRF52833-DK	NRF52833-DK	NRF52833	GPIO; UART; USB
NRF52840-DK	NRF52840-DK	NRF52840	GPIO; USB
NRF5340-DK	NRF5340-DK	NRF5340	GPIO; SPI; UART; USB

Symbol	Battery/ rechargeable battery	Kind of connector
NRF52-DK	battery Li-Mn CR2032 3V x1	coaxial; pin strips; USB B mini
NRF52833-DK	-	pin strips; USB B micro
NRF52840-DK	battery Li-Mn CR2032 3V x1	pin strips; SMA; USB B micro
NRF5340-DK	-	pin strips; USB

**ESP32-DevkitC series development boards from Espressif**



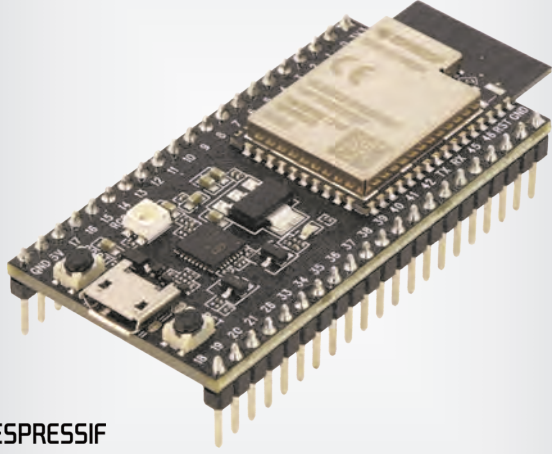
Manufacturer : ESPRESSIF  
Development kit : WiFi  
Interface : GPIO; I2C; I2S; SPI; UART; WiFi

Symbol	Manufacturer's symbol	Components
ESP32-DEVKITC-32E	ESP32-DEVKITC-32E	ESP32-WROOM-32E
ESP32-DEVKITC-32U	ESP32-DEVKITC-32U	ESP32-WROOM-32U
ESP32-DEVKITC-32UE	ESP32-DEVKITC-32UE	ESP32-WROOM-32UE
ESP32-DEVKITC-S1	ESP32-DEVKITC-S1	ESP32-SOLO-1
ESP32-DEVKITC-VE	ESP32-DEVKITC-VE	ESP32-WROVER-E
ESP32-DEVKITC-VIE	ESP32-DEVKITC-VIE	ESP32-WROVER-IE

Symbol	Communications protocol
ESP32-DEVKITC-32E	Bluetooth, Bluetooth Low Energy, IEEE 802.11b/g/n/e/i
ESP32-DEVKITC-32U	Bluetooth, Bluetooth Low Energy
ESP32-DEVKITC-32UE	Bluetooth, Bluetooth Low Energy, IEEE 802.11b/g/n/e/i
ESP32-DEVKITC-S1	Bluetooth, Bluetooth Low Energy
ESP32-DEVKITC-VE	Bluetooth, Bluetooth Low Energy, IEEE 802.11b/g/n/e/i
ESP32-DEVKITC-VIE	Bluetooth, Bluetooth Low Energy, IEEE 802.11b/g/n/e/i

Symbol	Features
ESP32-DEVKITC-32E	PCB antenna; I/O lines on pin header
ESP32-DEVKITC-32U	I/O lines on pin header
ESP32-DEVKITC-32UE	I/O lines on pin header
ESP32-DEVKITC-S1	PCB antenna; I/O lines on pin header
ESP32-DEVKITC-VE	PCB antenna; I/O lines on pin header
ESP32-DEVKITC-VIE	I/O lines on pin header

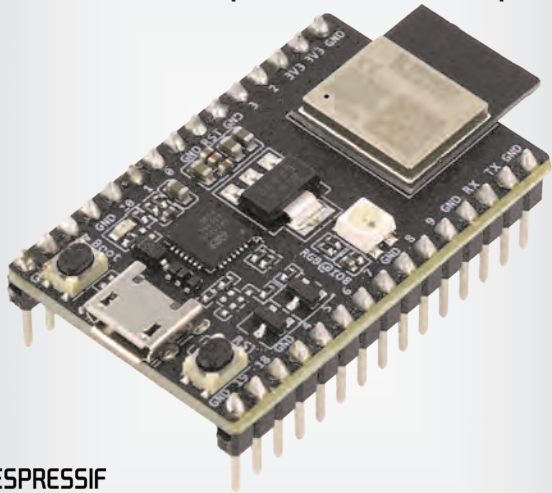
**ESP32-S2 series development boards from Espressif**



Manufacturer : ESPRESSIF  
Development kit : WiFi

Symbol	Manufacturer's symbol	Components
ESP32S2-KALUGA1	ESP32-S2-KALUGA-1	ESP32-S2-WROVER
ESP32S2-SAOLA-1M	ESP32-S2-SAOLA-1M	ESP32-S2-WROOM
ESP32S2-SAOLA-1MI	ESP32-S2-SAOLA-1MI	ESP32-S2-WROOM
ESP32S2-SAOLA-1R	ESP32-S2-SAOLA-1R	ESP32-S2-WROVER
ESP32S2-SAOLA-1RI	ESP32-S2-SAOLA-1RI	ESP32-S2-WROVER
Symbol	Interface	Communications protocol
ESP32S2-KALUGA1	GPIO; I2C; UART; USB; WiFi	IEEE 802.11a/b/g/n
ESP32S2-SAOLA-1M	GPIO; I2C; I2S; UART; WiFi	IEEE 802.11ac/b/g/n
ESP32S2-SAOLA-1MI	GPIO; I2C; I2S; UART; WiFi	IEEE 802.11ac/b/g/n
ESP32S2-SAOLA-1R	GPIO; I2C; I2S; UART; WiFi	IEEE 802.11ac/b/g/n
ESP32S2-SAOLA-1RI	GPIO; I2C; I2S; UART; WiFi	IEEE 802.11ac/b/g/n
Symbol	Features	
ESP32S2-KALUGA1	I/O lines on pin header	
ESP32S2-SAOLA-1M	PCB antenna; I/O lines on pin header	
ESP32S2-SAOLA-1MI	I/O lines on pin header	
ESP32S2-SAOLA-1R	PCB antenna; I/O lines on pin header	
ESP32S2-SAOLA-1RI	I/O lines on pin header	

**ESP32-C3 series development boards from Espressif**



Symbol	Manufacturer	Manufacturer's symbol	Components
ESP32C3-DEVKITC-02	ESPRESSIF	ESP32-C3-DEVKITC-02	ESP32-C3
ESP32C3-DEVKITM1	ESPRESSIF	ESP32-C3-DEVKITM-1	ESP32-MINI-1
Flash memory capacity : 4MB			
SRAM : 400kB			
Communications protocol : Bluetooth, Bluetooth Low Energy, IEEE 802.11b/g/n/e/i			
Interface : GPIO; I2C; I2S; SPI; UART; WiFi			
Ciphering : AES, WPA, WPA2-PSK, WPS			
Features : PCB antenna;			
I/O lines on pin header			
Kind of connector : pin strips;			
USB micro			
Kit contents : prototype board			

**ESP32-S3 series development boards from Espressif**

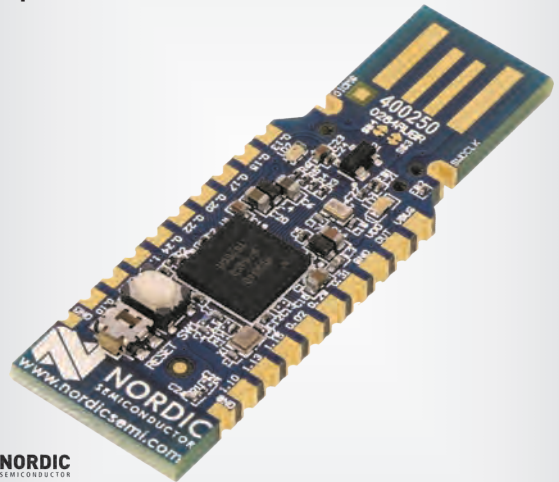


Manufacturer	: ESPRESSIF		
SRAM	: 512kB		
Communications protocol	: Bluetooth Low Energy, IEEE 802.11b/g/n		
Symbol	Manufacturer's symbol	Components	
ESP32S3-BOX	ESP32-S3-BOX	ESP32-S3	
ESP32S3-BOX-LITE	ESP32-S3-BOX-LITE	ESP32-S3	
ESP32S3DEVKIC-16R8V	ESP32-S3-DEVKIC-1-N16R8V	ESP32-S3-WROOM-2	

Symbol	Manufacturer's symbol	Components
ESP32S3DEVKIC-32R8V	ESP32-S3-DEVKIC-1-N32R8V	ESP32-S3-WROOM-2
ESP32S3DEVKIC-8	ESP32-S3-DEVKIC-1-N8	ESP32-S3-WROOM-1
ESP32S3DEVKIC-8R2	ESP32-S3-DEVKIC-1-N8R2	ESP32-S3-WROOM-1
ESP32S3DEVKIC-8R8	ESP32-S3-DEVKIC-1-N8R8	ESP32-S3-WROOM-1
ESP32S3DEVKIM-8	ESP32-S3-DEVKITM-1-N8	ESP32-S3-MINI-1-N8
ESP32-S3-EYE	ESP32-S3-EYE	ESP32-S3-WROOM-1
ESP32-S3-KORVO-1	ESP32-S3-KORVO-1	ESP32-S3-WROOM-1
ESP32-S3-KORVO-2	ESP32-S3-KORVO-2	ESP32-S3-WROOM-1
ESP32-S3-USB-OTG	ESP32-S3-USB-OTG	ESP32-S3-MINI-1-N8

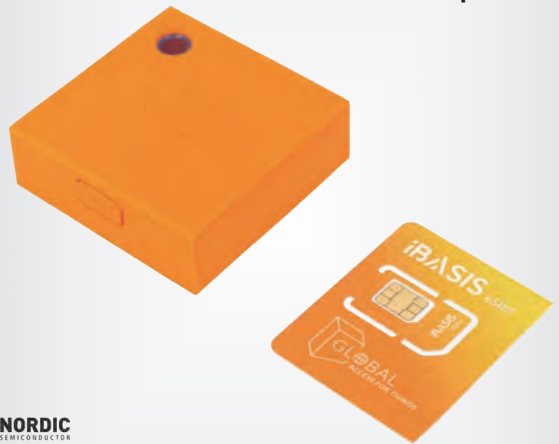
Symbol	Interface
ESP32S3-BOX	I2C; I2S; SPI; UART; USB
ESP32S3-BOX-LITE	I2C; I2S; SPI; UART; USB
ESP32S3DEVKIC-16R8V	ADC; GPIO; I2C; I2S; PWM; SPI; UART; USB
ESP32S3DEVKIC-32R8V	ADC; GPIO; I2C; I2S; PWM; SPI; UART; USB
ESP32S3DEVKIC-8	ADC; GPIO; I2C; I2S; PWM; SPI; UART; USB
ESP32S3DEVKIC-8R2	ADC; GPIO; I2C; I2S; PWM; SPI; UART; USB
ESP32S3DEVKIC-8R8	ADC; GPIO; I2C; I2S; PWM; SPI; UART; USB
ESP32S3DEVKIM-8	ADC; GPIO; I2C; I2S; PWM; SPI; UART; USB
ESP32-S3-EYE	GPIO; USB; WiFi
ESP32-S3-KORVO-1	GPIO; I2C; I2S; SPI; UART; WiFi
ESP32-S3-KORVO-2	GPIO; I2C; I2S; SPI; UART; WiFi
ESP32-S3-USB-OTG	GPIO; SPI; UART; USB; WiFi

**NORDIC SEMICONDUCTOR NRF52840-DONGLE development kit**



Symbol	Manufacturer	Manufacturer's symbol
NRF52840-DONGLE	NORDIC SEMICONDUCTOR	NRF52840-DONGLE
Components	: NRF52840	
Development kit	: Bluetooth 5 / BLE	
Interface	: GPIO; UART; USB	
Kind of connector	: USB A	
Kit contents	: prototype board	
Features	: built-in antenna	
Communications protocol	: ANT, Bluetooth® 5, Bluetooth® Mesh, IEEE 802.15.4, Thread, ZigBee®	

**NORDIC SEMICONDUCTOR THINGY development kits**



Symbol	Manufacturer's symbol	Architecture	Development kit
THINGY53	NORDIC THINGY:53	Cortex M33	IoT
NRF6943	NORDIC THINGY:91	Cortex M33	LTE
NRF6936	NORDIC THINGY:52	Cortex M4	Bluetooth Low Energy
Symbol	Components		
THINGY53	nPM1100, nRF21540, NRF5340		
NRF6943	nRF52840, NRF9160		
NRF6936	BH1745NUC, CCS881, HTS221, LIS2DH12, LPS22HB, MP34DB02, NRF52832		

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### NORDIC SEMICONDUCTOR THINGY development kits (cont.)

Symbol	Interface	Kind of connector
THINGY53	Bluetooth Low Energy; Bluetooth Mesh; NFC; ZigBee	USB C
NRF6943	Bluetooth Low Energy; NFC	USB B micro
NRF6936	Bluetooth Low Energy; NFC	USB B micro

### Development tools for GSM communication modules made by SIMCOM



Symbol	Manufacturer's symbol	Components
SIMCOM-EVB-KIT	SIMCOM-EVB-KIT: S2-106XN	-
SIM7000E-TE-KIT	SIM7000E-TE-KIT	SIM7000E
SIM7000G-TE-KIT	SIM7000G-TE-KIT	SIM7000G
SIM7020E-SUB-KIT	SIM7020E-SUB-KIT	SIM7020E
SIM7020G-SUB-KIT	S2-10KA2	SIM7020G
SIM7500E-TE-KIT	SIM7500E-TE-KIT	SIM7500E
SIM7600E-TE-KIT	SIM7600E-TE-KIT	SIM7600E
SIM8200G-EVBKIT	S2-108RH	SIM8200G
SIM8200G-TEKIT	S2-109H9	SIM8200G
SIM8200M2-EVB2-KIT	S2-108RE	SIM8200M2
SIM8300M2-EVB-KIT	S2-108RN	SIM8300M2

Symbol	Interface
SIMCOM-EVB-KIT	USB
SIM7000E-TE-KIT	ADC; GPIO; I2C; UART; USB 2.0
SIM7000G-TE-KIT	GPIO; UART; USB 2.0
SIM7020G-SUB-KIT	GPIO; I2C; UART
SIM7600E-TE-KIT	ADC; GPIO; I2C; PCM; SDIO; SIM; UART; USB 2.0

### MICROCHIP TECHNOLOGY USB2514B USB 2.0 4-Port Hub development kit

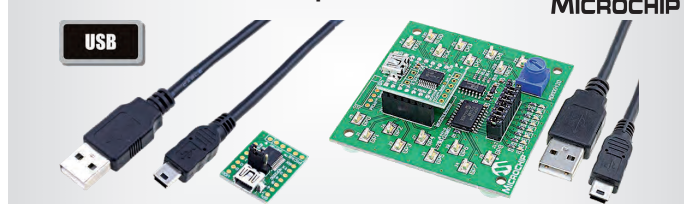


Symbol	Manufacturer	Manufacturer's symbol
EVB-USB2514BC	MICROCHIP TECHNOLOGY	EVB-USB2514BC

Interface	Features	Kind of connector	Kit contents	Associated circuits
: USB 2.0	: 4 x USB 2.0 Downstream; battery charging support	: USB A x4; USB B; supply	: USB cable; prototype board; power supply USA plug	: USB2514B

### Development kits - MICROCHIP TECHNOLOGY USB Peripherals



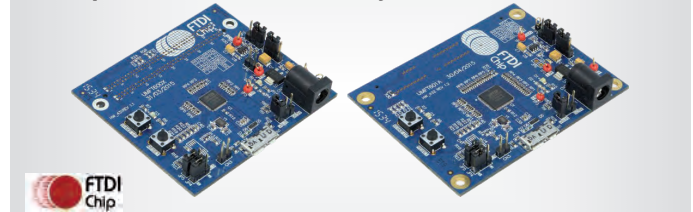
Manufacturer : MICROCHIP TECHNOLOGY

Symbol	Manufacturer's symbol	Components	Interface	Kind of connector
ADM00393	ADM00393	MCP2200	UART	DIP20; PICkit Serial Analyzer; USB B mini
ADM00419	ADM00419	MCP2210	SPI	DIP20; PICkit Serial Analyzer; USB B mini
ADM00421	ADM00421	MCP2210	SPI	USB B mini

Symbol	Kit contents
ADM00393	USB A - USB B mini cable; prototype board
ADM00419	USB A - USB B mini cable; prototype board
ADM00421	ADM <sup>0</sup> 0419; ADM <sup>0</sup> 0420; USB A - USB B mini cable

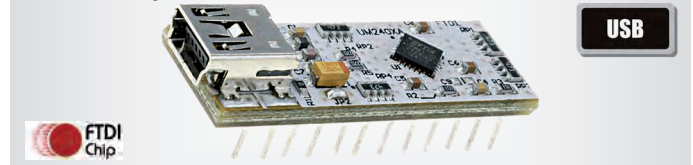
### Development tools for FT600 by FTDI



Manufacturer : FTDI  
USB speed : SuperSpeed

Symbol	Manufacturer's symbol	Components	Interface	Kind of connector
UMFT600A	UMFT600A-B	FT600Q	32bit FIFO bus; FIFO x2; GPIO; USB 3.0	HSMC
UMFT601A	UMFT601A-B	FT601Q	32bit FIFO bus; FIFO x2; GPIO; USB 3.0	HSMC
UMFT601X	UMFT601X-B	FT601Q	32bit FIFO bus; FIFO x2; GPIO; USB 3.0	FMC
UMFT602A-B	UMFT602A-B	FT602Q-B	32bit FIFO bus; USB 3.1	HSMC
UMFT602X-B	UMFT602X-B	FT602Q-B	32bit FIFO bus; USB 3.1	FMC

### FTDI development modules - X-CHIP



Manufacturer : FTDI  
Type of communications module : USB

Symbol	Manufacturer's symbol	Data transmission [Mbps]	Kind of connector	Interface
UMFT201XA-01	UMFT201XA-01	3.4	DIP16; USB B mini	I2C
UMFT220XA-01	UMFT220XA-01	4	DIP16; USB B mini	SPI 4bit / FT1248
UMFT230XA-01	UMFT230XA-01	3	DIP16; USB B mini	basic UART
UMFT231XA-01	UMFT231XA-01	3	DIP20; USB B mini	full UART
UMFT240XA-01	UMFT240XA-01	8	DIP24; USB B mini	FIFO

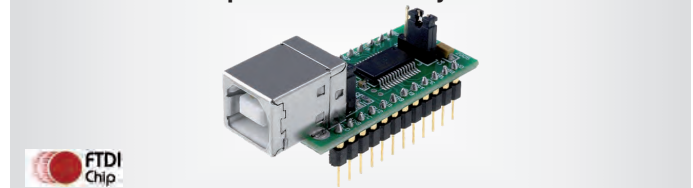
### FTDI breakout modules - X-CHIP



Manufacturer : FTDI  
Type of communications module : USB  
Features : plugs directly to USB host connector  
Kind of connector : pin strips; USB A

Symbol	Manufacturer's symbol	Data transmission [Mbps]	Interface	Components
UMFT201XB-01	UMFT201XB-01	3.4	I2C - Slave	FT201X
UMFT220XB-01	UMFT220XB-01	4	SPI	FT220X
UMFT230XB-01	UMFT230XB-01	3	basic UART	FT230X

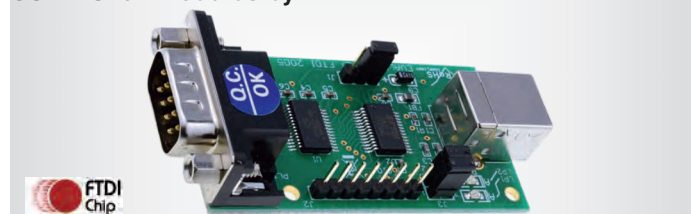
### USB-UART development modules by FTDI



Manufacturer : FTDI  
Type of communications module : USB  
Interface : UART  
Components : FT232R

Symbol	Manufacturer's symbol	Kind of connector	Number of pins
UM232R	UM232R	pin strips; USB B	24 (1x 12, 1x 12)
MM232R	MM232R	pin strips; USB B	16 (1x 4, 2x 4, 1x 4)
UB232R	UB232R	pin strips; USB B mini	8 (1x 4, 1x 4)

### USB-RS232 modules by FTDI

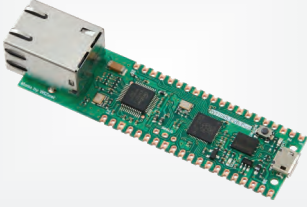


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USB-RS232 modules by FTDI (cont.)

Symbol	Manufacturer	Manufacturer's symbol	Components
EVAL232R	FTDI	EVAL232R	FT232R
Type of communications module : USB			
USB speed	: Full Speed		
Interface	: RS232; USB		
Kind of connector	: D-Sub 9pin; pin header; USB B		

Development tools for Wiznet IC's with RP2040 microcontroller

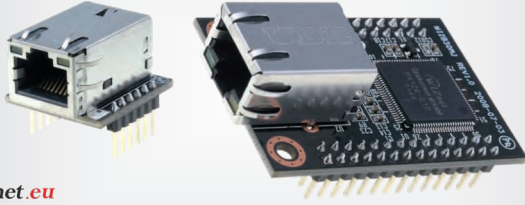


Manufacturer : WIZNET

Symbol	Manufacturer's symbol	Development kit	Components
WIZ-PICO-W5100SEVB	W5100S-EVB-PICO	Ethernet	RP2040, W5100S
WIZ-PICO-ETH-HAT	WIZNET-ETHERNET-HAT		W5100S
W5500-EVB-PICO	W5500-EVB-PICO	Ethernet	RP2040, W5500
WIZFI360-EVB-PICO	WIZFI360-EVB-PICO	WiFi	RP2040
Symbol	Interface	Kind of connector	
WIZ-PICO-W5100SEVB	ADC; Ethernet; GPIO; I2C; PWM; SPI; UART; USB	20pin x2; RJ45; USB micro	
WIZ-PICO-ETH-HAT	Ethernet; SPI	20pin x2; RJ45	
W5500-EVB-PICO	ADC; Ethernet; GPIO; I2C; PWM; SPI; UART; USB	20pin x2; RJ45; USB micro	
WIZFI360-EVB-PICO	ADC; GPIO; I2C; PWM; SPI; UART; USB	20pin x2; Micro USB	

Features : Raspberry Pi PICO compatible  
Kit contents : prototype board

WIZNET Plug-In modules

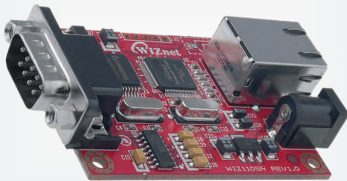


Manufacturer : WIZNET

Symbol	Manufacturer's symbol	Components	Interface
WIZ550IO	WIZ550IO	W5500	SPI
WIZ550S2E	WIZ550S2E	W5500	TTL
WIZ550S2E-232	WIZ550S2E-232	SP3232EBEY, W5500	RS232
WIZ550S2E-485	WIZ550S2E-485	SP3232EBEY, W5500	RS422 / RS485
WIZ610MJ	WIZ610MJ	W6100	Bus
WIZ810MJ	WIZ810MJ	W5100	SPI
WIZ810SIO	WIZ810SIO	W5100S	SPI
WIZ820IO	WIZ820IO	W5200	SPI
WIZ830MJ	WIZ830MJ	W5300	parallel
WIZ850IO	WIZ850IO	W5500	SPI

Symbol	Communications protocol	Kind of connector
WIZ550IO	ARP, ICMP, IGMP, IPv4, MAC, PPPoE, TCP, UDP	pin header; RJ45
WIZ550S2E	ARP, ICMP, IGMP, IPv4, MAC, PPPoE, TCP, UDP	pin header; RJ45
WIZ550S2E-232	ARP, ICMP, IGMP, IPv4, MAC, PPPoE, TCP, UDP	D-Sub 9pin; RJ45; supply
WIZ550S2E-485	ARP, ICMP, IGMP, IPv4, MAC, PPPoE, TCP, UDP	RJ45; screw terminal; supply
WIZ610MJ	ARP, ICMP, IGMP, IPv4, IPv6, MAC, PPPoE, TCP, UDP	pin header; RJ45
WIZ810MJ	ARP, ICMP, IGMP, IPv4, MAC, PPPoE, TCP, UDP	pin header; male x8; RJ45
WIZ810SIO	ARP, ICMP, IGMP, IPv4, PPPoE, TCP, UDP, WOL over UDP	pin header; RJ45
WIZ820IO	ARP, ICMP, IGMP, IPv4, MAC, PPPoE, TCP, UDP	pin header; RJ45
WIZ830MJ	ARP, ICMP, IGMP, IPv4, MAC, PPPoE, TCP, UDP	pin header; RJ45
WIZ850IO	ARP, ICMP, IGMP, IPv4, MAC, PPPoE, TCP, UDP	pin header; RJ45

WIZNET Serial-to-Ethernet modules



Manufacturer : WIZNET

Type of communications module : Ethernet

Symbol	Manufacturer's symbol	Communications protocol
WIZ100SR	WIZ100SR	ARP, DHCP, DNS, ICMP, IPv4, MAC, PPPoE, TCP, UDP
WIZ105SR	WIZ105SR	ARP, ICMP, IPv4, MAC, PPPoE, TCP, UDP
WIZ107SR	WIZ107SR	ARP, ICMP, IGMP, IPv4, MAC, TCP, UDP
WIZ107SR-TTL	WIZ107SR-TTL	ARP, ICMP, IGMP, IPv4, MAC, TCP, UDP
WIZ108SR	WIZ108SR	ARP, ICMP, IGMP, IPv4, MAC, TCP, UDP
WIZ110SR	WIZ110SR	ARP, ICMP, IPv4, MAC, PPPoE, TCP, UDP
WIZ140SR	WIZ140SR	ARP, DHCP, DNS, ICMP, IGMP, IPv4, MAC, TCP, UDP
WIZ145SR	WIZ145SR	ARP, DHCP, DNS, ICMP, IGMP, IPv4, MAC, TCP, UDP
WIZ500SR-RP	WIZ500SR-RP	ARP, ICMP, IGMP, IPv4, PPPoE, TCP, UDP, WOL over UDP

Symbol	Manufacturer's symbol	Communications protocol
WIZ505SR-RP	WIZ505SR-RP	ARP, ICMP, IGMP, IPv4, PPPoE, TCP, UDP, WOL over UDP
WIZ510SR-RP	WIZ510SR-RP	ARP, ICMP, IGMP, IPv4, PPPoE, TCP, UDP, WOL over UDP
WIZ550SR	WIZ550SR	-
WIZ750SR-100	WIZ750SR-100	ARP, ICMP, IGMP, IPv4, PPPoE, TCP, UDP
WIZ750SR-105	WIZ750SR-105	ARP, ICMP, IGMP, IPv4, PPPoE, TCP, UDP
WIZ750SR-110	WIZ750SR-110	ARP, ICMP, IGMP, IPv4, PPPoE, TCP, UDP
WIZ750SR-232	WIZ750SR-232	ARP, ICMP, IGMP, IPv4, PPPoE, TCP, UDP
WIZ750SR-485	WIZ750SR-485	ARP, ICMP, IGMP, IPv4, PPPoE, TCP, UDP
WIZ750SR-TTL	WIZ750SR-TTL	ARP, ICMP, IGMP, IPv4, PPPoE, TCP, UDP
WIZ752SR-120	WIZ752SR-120	ARP, ICMP, IGMP, IPv4, PPPoE, TCP, UDP
WIZ752SR-125	WIZ752SR-125	ARP, ICMP, IGMP, IPv4, PPPoE, TCP, UDP
WIZWIKI-W7500ECO	WIZWIKI-W7500ECO	ARP, ICMP, IGMP, IPv4, PPPoE, TCP, UDP

Symbol	Interface	Symbol	Interface
WIZ100SR	UART	WIZ550SR	MDI; UART
WIZ105SR	UART	WIZ750SR-100	Ethernet; TTL
WIZ107SR	RS232	WIZ750SR-105	Ethernet; TTL
WIZ107SR-TTL	UART	WIZ750SR-110	Ethernet; RS232
WIZ108SR	RS422; RS485	WIZ750SR-232	Ethernet; RS232
WIZ110SR	RS232	WIZ750SR-485	Ethernet; RS422 / RS485
WIZ140SR	UART x4	WIZ750SR-TTL	Ethernet; TTL
WIZ145SR	UART x4	WIZ752SR-120	Ethernet; TTL; UART x2
WIZ500SR-RP	Ethernet x2; SWD; UART x2	WIZ752SR-125	Ethernet; RS232 x2
WIZ505SR-RP	Ethernet x2; SWD; UART x2	WIZWIKI-W7500ECO	GPIO; I2C; PWM; SPI; UART; USB
WIZ510SR-RP	Ethernet; RS232; SWD; UART		

OriginGPS GPS module development tools



Manufacturer : OriginGPS

Development kit : evaluation

Interface : UART

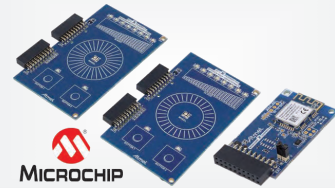
Symbol	Manufacturer's symbol	Components	Kit contents
ORG1410-PM01-UAR	ORG1410-PM01-UAR	ORG1410-PM01	CD-ROM; connection cable; prototype board
ORG1411-PM01-UAR	ORG1411-PM01-UAR	ORG1411-PM01	CD-ROM; connection cable; prototype board
ORG1510-MK05-UAR	ORG1510-MK05-UAR	ORG1510-MK05	connection cable; pendrive; prototype board
ORG1510-R01-UAR	ORG1510-EVK	ORG1510-R01	antenna; CD-ROM; connection cable; prototype board
ORG1510-R02-UAR	ORG1510-R02-UAR	ORG1510-R02	antenna; CD-ROM; connection cable; prototype board
ORG1518-MK06-UAR	ORG1518-MK06-UAR	ORG1518-MK06	CD-ROM; connection cable; prototype board
ORG1518-R01-UAR	ORG1518-R01-UAR	ORG1518-R01	CD-ROM; connection cable; prototype board
ORG4400-PM04-UAR	ORG4400-PM04-UAR	ORG4400-PM04	antenna; CD-ROM; connection cable; prototype board
ORG4472-PM04-UAR	ORG4472-PM04-UAR	ORG4472-PM04	antenna; CD-ROM; connection cable; prototype board
ORG4572-R01-UAR	ORG4572-R01-UAR	ORG4572-R01	CD-ROM; connection cable; prototype board
ORG4572-R02-UAR	ORG4572-R02-UAR	ORG4572-R02	CD-ROM; connection cable; prototype board
ORG4600-B01-UAR	ORG4600-B01-UAR	ORG4600-B01	connection cable; prototype board



Add-on Boards



MICROCHIP TECHNOLOGY XPRO Add-On Boards



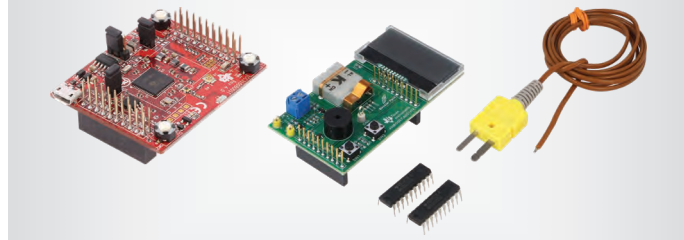
Symbol	Manufacturer's symbol	Components
ATBNO055-XPRO	ATBNO055-XPRO	BNO055
ATBTLC1000-XPRO	ATBTLC1000-XPRO	ATBTLC1000
ATBTLC1000ZR-XPRO	ATBTLC1000ZR-XPRO	AT30TSE758, ATBTLC1000-ZR110CA
ATETHERNET1-XPRO	ATETHERNET1-XPRO	ATSHA204, KSZ8851SNL
ATIO1-XPRO	ATIO1-XPRO	AT30TSE758, ATSHA204, TEMT6000
ATOLED1-XPRO	ATOLED1-XPRO	UG-2832HSWEG04
ATPROTO1-XPRO	ATPROTO1-XPRO	-
ATSLCD1-XPRO	ATSLCD1-XPRO	YMCC42412AAAFDCL
ATCRYPTOAUTH-XPRO	ATCRYPTOAUTH-XPRO	ATAES132A, ATECC508A, ATSHA204
ATREB233-XPRO	ATREB233-XPRO	AT86RF233, ATXMEGA256A3U
ATWINC1500-XPRO	ATWINC1500-XPRO	ATECC108, ATSHA204, ATWINC1510
ATWINC3400-XPRO	ATWINC3400-XPRO	WINC3400-MR2110CA
ATZB-A-233-XPRO	ATZB-A-233-XPRO	AT86RF233
ATZB-256RFR2-XPRO	ATZB-256RFR2-XPRO	ATMEGA256RFR2
ATQT2-XPRO	ATQT2-XPRO	IS31FL3728
ATQT3-XPRO	ATQT3-XPRO	-
ATQT4-XPRO	ATQT4-XPRO	-
ATQT5-XPRO	ATQT5-XPRO	-
ATQT6-XPRO	ATQT6-XPRO	-

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**MICROCHIP TECHNOLOGY XPRO Add-On Boards (cont.)**

ATBTLC1000ZR-XPRO	ATBTLC1000ZR-XPRO	AT30TSE758, ATBTLC1000-ZR110CA
ATQT7-XPRO	ATQT7-XPRO	-
DM164146	DM164146	ATSHA204, BM71
EV23M25A	EV23M25A	WLR089U0
AC89D55A	AC89D55A	-
AC11C60A	AC11C60A	-
Symbol	Kind of module	Interface
ATBNO055-XPRO	accelerometer, magnetometer, gyroscope	I2C
ATBTLC1000-XPRO	Bluetooth	I2C; SPI; UART
ATBTLC1000ZR-XPRO	Bluetooth	I2C; SPI; UART
ATETHERNET1-XPRO	Ethernet controller	Ethernet; SPI
ATI01-XPRO	lighting sensor, temperature sensor	I2C; PWM; SPI; UART
ATOLED1-XPRO	OLED display	SPI
ATPROTO1-XPRO	prototype board	I2C; PWM; SPI; UART
ATSLCD1-XPRO	LCD display	GPIO
ATCRYPTOAUTH-XPRO	encrypting	1-wire; I2C; SPI
ATREB233-XPRO	ZigBee	I2C; SPI; UART
ATWINC1500-XPRO	WiFi	I2C; SPI
ATWINC3400-XPRO	Bluetooth V4.0 & BLE	I2C; UART
ATZB-A-233-XPRO	ZigBee	SPI
ATZB-256RFR2-XPRO	ZigBit	GPIO; SPI; UART
ATQT2-XPRO	capacitive keypad	PTC
ATQT3-XPRO	capacitive keypad	PTC
ATQT4-XPRO	capacitive keypad	PTC
ATQT5-XPRO	capacitive keypad	PTC
ATQT6-XPRO	capacitive keypad	PTC
ATQT7-XPRO	capacitive keypad	PTC
DM164146	Bluetooth	I2C; SPI; UART
EV23M25A	LoRa	-
AC89D55A	capacitive keypad	PTC
AC11C60A	extension	GPIO

**BoosterPack expansion boards from TEXAS INSTRUMENTS**



Manufacturer : TEXAS INSTRUMENTS

Symbol	Kind of module	Components
BOOSTXL-DRV8305EVM	brushless motor driver	CSD18540Q5B, DRV8305, LMR16006
CC3100MODBOOST	WiFi	CC3100
BOOSTXL-BUCKCONV	DC/DC converter	TMS320F28069
ADC128S102EVM	A/D converter	ADC128S102, LMT84
430BOOST-SHARP96	LCD display	LS013B4DN04
BOOSTXL-C2KLED	LED driver	-
430BOOST-SENSE1	capacitive keypad	MSP430G2452IN20
430BOOST-ADS1118	thermocouple	ADS1118, MSP430G2553
BOOSTXL-DRV8301	brushless motor driver	CSD18533Q5A, DRV8301
BOOST-DRV8711	stepper motor driver	CSD88537ND, DRV8711
BOOSTXL-RS232	RS232	TRS3122E
BOOSTXL-ULN2003	stepper motor driver	ULN2003A
BOOST-ADS7042	A/D converter	ADS7042
ADC121C021EVM	A/D converter	ADC121C021
ADC121S101EVM	A/D converter	ADC121S101
ADC161S626EVM	A/D converter	ADC161S626, LMP8350MA
BOOST-DRV8848	DC/DC converter	DRV8848
BOOST5545ULP	evaluation board	TMS320C5545A
DAC121S101EVM	D/A converter	DAC128S085CIMK, LM4120IM5-4.1
DAC128S085EVM	D/A converter	DAC128S085
DAC161S055EVM	D/A converter	DAC161S055
TPL0501EVM	digital potentiometer	TPL0501
TPL5000EVM	timer	TPL5000
CC3120BOOST	BLE, WiFi	CC3120

**MIKROE Click Add-On Boards with mikroBUS Standard**



Symbol	Manufacturer's symbol	Kind of module	Components
MIKROE-1379	GYRO CLICK	gyroscope	L3GD20
MIKROE-3300	GYRO 2 CLICK	gyroscope	FXAS21002C
MIKROE-3449	GYRO 3 CLICK	gyroscope	I3G4250
MIKROE-3661	GYRO 4 CLICK	gyroscope	L20G20IS
MIKROE-3669	GYRO 5 CLICK	gyroscope	ITG3701
MIKROE-4827	GYRO 6 CLICK	gyroscope	IAM-20380
MIKROE-5145	GYRO 7 CLICK	gyroscope	IGG-1020S
MIKROE-4277	ZIGBEE CLICK	ZigBee	ETRX357
MIKROE-1599	XBEE CLICK	XBee	XB24CZ7PIS-004
MIKROE-2368	AUDIOAMP CLICK	amplifier	LM48100Q-Q1 Boomer
MIKROE-2454	STEREOAMP CLICK	amplifier	LM48100Q-Q1 Boomer
MIKROE-2555	GAINAMP CLICK	amplifier	LTC6912
MIKROE-2859	GAINAMP 2 CLICK	amplifier	MCP6S26
MIKROE-3010	2X30W AMP CLICK	amplifier	TPA3128
MIKROE-3077	AUDIOAMP 2 CLICK	amplifier	TDA7491
MIKROE-3271	AUDIOAMP 4 CLICK	amplifier	LM4860
MIKROE-3401	AUDIO AMP 5 CLICK	amplifier	TPA3138D2
MIKROE-3448	AUDIOAMP 6 CLICK	amplifier	TPA3138D2
MIKROE-3901	AUDIOAMP 3 CLICK	amplifier	TAS5414
MIKROE-4104	AUDIO XOVER CLICK	amplifier	MCP6H012
MIKROE-4124	WHEATSTONE CLICK	amplifier	MAX4208
MIKROE-4766	HEADPHONE AMP CLICK	amplifier	LM4811
MIKROE-4800	GAINAMP 3 CLICK	amplifier	ADA4254
MIKROE-4812	AUDIOAMP 8 CLICK	amplifier	MA12070
MIKROE-1585	OLED C CLICK	OLED display	PSP27801, SSD1351
MIKROE-1649	OLED W CLICK	OLED display	SSD1306
MIKROE-1201	7SEG CLICK	LCD display	74HC595
MIKROE-1423	BARGRAPH CLICK	LCD display	74HC595
MIKROE-2734	7-SEG RGB CLICK	LCD display	RGBDigit
MIKROE-2743	UT-L 7-SEG R CLICK	LCD display	MAX6969
MIKROE-2746	UT-M 7-SEG R CLICK	LCD display	MAX6969
MIKROE-3789	LCD MONO CLICK	LCD display	LS013B7DH03
MIKROE-4782	BARGRAPH 4 CLICK	LCD display	HLMP-2550, TLC59283
MIKROE-3683	EINK CLICK - WITHOUT DISPLAY	eInk display	LM75A, SSD1606
MIKROE-4701	PROFET CLICK - 15A	high side outputs	BTS70041EPPXUMA1
MIKROE-4817	PROFET CLICK - 10A	high side outputs	BTS7008-1EPA
MIKROE-4818	PROFET 2 CLICK - 3A	high side outputs	BTS70802EPAXUMA1
MIKROE-4819	PROFET 2 CLICK - 7.5A	high side outputs	BTS70082EPAXUMA1
MIKROE-2436	VOLTMETER CLICK	voltmeter	MAXX6106, MCP3201, MCP609
MIKROE-3311	RMS TO DC CLICK	voltmeter	LTC1968
MIKROE-5111	VU METER CLICK	voltmeter	LM3914
MIKROE-1135	WiFi PLUS CLICK	WiFi	MCW1001, MRF24WB0MA
MIKROE-1768	WiFi2 CLICK	WiFi	HLK-M30
MIKROE-1913	WiFi4 CLICK	WiFi	SPWF01SA
MIKROE-2043	WiFi6 CLICK	WiFi	WF121-A
MIKROE-2046	WiFi7 CLICK	WiFi	ATWINC1510
MIKROE-2336	CC3100 CLICK	WiFi	CC3100
MIKROE-2542	WiFi ESP CLICK	WiFi	ESP-WROOM-02
MIKROE-3291	G2C CLICK	WiFi	ESP-WROOM-02
MIKROE-3432	WiFi 10 CLICK	WiFi	SX-ULPAN-SB-2401
MIKROE-3663	DEVICEDRIVE CLICK	WiFi	WRF01-M24A
MIKROE-3666	WiFi 9 CLICK	WiFi	PAN9420
MIKROE-4245	WiFi 11 CLICK	WiFi	BW16
MIKROE-4704	WiFi 8 CLICK	WiFi	ATWINC3400-MR210CA
MIKROE-3302	ULTRASONIC 2 CLICK	ultrasonic range finder	PGA460
MIKROE-1819	UNIQUE ID CLICK	integrated circuit with unique serial number	DS2401
MIKROE-1196	OPTO CLICK	optocouplers	VO2630
MIKROE-4476	OPTO 5 CLICK	optocouplers	FOD4216
MIKROE-2553	LEM CLICK	transducer	LTS 6-NP, MCP3201
MIKROE-1304	NRF C CLICK	RF transceiver	A5839, nRF24L01P
MIKROE-1305	NRF T CLICK	RF transceiver	nRF24L01P
MIKROE-1716	CCRF2 CLICK	RF transceiver	CC1120
MIKROE-1836	NRF S CLICK	RF transceiver	nRF24L01P
MIKROE-2218	6LOWPAN T CLICK	RF transceiver	CC2520
MIKROE-2219	6LOWPAN C CLICK	RF transceiver	CC2520
MIKROE-2389	CCRF 3 CLICK	RF transceiver	CC1120
MIKROE-2521	ENOCAN 2 CLICK	RF transceiver	TCM515Z

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**MIKROE Click Add-On Boards with mikroBUS Standard (cont.)**

Symbol	Manufacturer's symbol	Kind of module	Components
MIKROE-2568	SPIRIT CLICK	RF transceiver	SP1ML
MIKROE-2586	IQRF CLICK	RF transceiver	DCTR-76DA
MIKROE-3637	ENOCEAN 4 CLICK	RF transceiver	TCM515U
MIKROE-3653	ENOCEAN 3 CLICK	RF transceiver	TCM515
MIKROE-1535	TRF CLICK	transceiver	LE70-868
MIKROE-1940	FIBER OPT CLICK	transceiver	IF-D91
MIKROE-2228	MCP25625 CLICK	transceiver	MCP25625
MIKROE-2334	ATA6563 CLICK	transceiver	ATA6563
MIKROE-2335	ATA663211 CLICK	transceiver	ATA663211
MIKROE-2700	RS485 2 CLICK	transceiver	MAX3471
MIKROE-3692	M-BUS RF 4 CLICK	transceiver	32001324
MIKROE-3816	LIN CLICK	transceiver	TLE7259-3GE
MIKROE-3870	DUAL LIN CLICK	transceiver	TLE7268SXUMA1
MIKROE-3880	M-BUS MASTER CLICK	transceiver	MC33072ADR2G, VOM452
MIKROE-3912	RS232 SPI CLICK	transceiver	MAX3100, MAX3232
MIKROE-3929	FT CLICK	transceiver	FT6050
MIKROE-3933	CAN FD CLICK	transceiver	TLE9252V
MIKROE-3992	CAN FD 3 CLICK	transceiver	TLE9251V
MIKROE-4062	CAN FD 2 CLICK	transceiver	TLE9255W
MIKROE-4107	CAN FD 4 CLICK	transceiver	NCV7344D10R2G
MIKROE-4137	M-BUS SLAVE CLICK	transceiver	TSS721A
MIKROE-4199	UWB CLICK	transceiver	DWM1000
MIKROE-4286	CAN FD 5 CLICK	transceiver	UJA1162A
MIKROE-4536	RS232 ISOLATOR 2 CLICK	transceiver	ICL3221EF, PS9121, TC7SZ125FU
MIKROE-4640	CAN BUS CLICK	transceiver	MAX13054, MAX1658, MAX1659
MIKROE-1995	TOUCHPAD CLICK	touchpad	MTCH6102
MIKROE-4382	TOUCHPAD 3 CLICK	touchpad	MTCH6301
MIKROE-4752	TOUCHPAD 4 CLICK	touchpad	IQS7211A
MIKROE-5199	TOUCHPAD 5 CLICK	touchpad	IQS550
MIKROE-2333	TIMER CLICK	timer	DS1682
MIKROE-3083	TESTER CLICK	mikroBUS interface tester	-
MIKROE-1888	IRTHERMO 2 CLICK	thermopile	TMP007
MIKROE-1197	THERMO CLICK	thermocouple	MAX31855K
MIKROE-2811	THERMO J CLICK	thermocouple	MCP9600
MIKROE-4301	TEMP PROBE CLICK	thermocouple	LTC2986
MIKROE-1361	IRTHERMO CLICK - 3.3V	infrared thermometer	MLX90614ESF-BAA
MIKROE-1362	IRTHERMO CLICK - 5V	infrared thermometer	MLX90614ESF-AAA
MIKROE-3217	IR GRID 3 CLICK	infrared thermometer	MLX90640
MIKROE-2554	FEVER CLICK	digital thermometer	MAX30205
MIKROE-3290	THERMO 8 CLICK	digital thermometer	MCP9808
MIKROE-2829	SECURE 4 CLICK	encrypting	ATECC608A
MIKROE-4236	TRUST M CLICK	encrypting	SLS 32AIA010
MIKROE-1446	CAPSENSE CLICK	capacitive slider	CY8C201A0
MIKROE-4982	CAPSENSE 2 CLICK	capacitive slider	CAP1114
MIKROE-3078	RGB DRIVER CLICK	RGB LED strip driver	NCP5623B
MIKROE-3133	SERVO CLICK	servo driver	LTC2497, PCA9685
MIKROE-2807	LED DRIVER 2 CLICK	LED driver	MCP1643
MIKROE-2830	LED FLASH 2 CLICK	LED driver	MIC2870
MIKROE-2950	LED DRIVER 3 CLICK	LED driver	NCP5623B, PCA9306
MIKROE-3037	LED DRIVER 4 CLICK	LED driver	TPS61160A
MIKROE-3297	LED DRIVER 5 CLICK	LED driver	TPS54200
MIKROE-3400	LED DRIVER 6 CLICK	LED driver	AL1781, MCP3221
MIKROE-3917	LED DRIVER 7 CLICK	LED driver	AD5171, LTC3490
MIKROE-4268	LED DRIVER 8 CLICK	LED driver	PCA9957
MIKROE-4595	LED DRIVER 9 CLICK	LED driver	TLC59116
MIKROE-4757	LED DRIVER 11 CLICK	LED driver	MCP4726, WLMDU9456001JT
MIKROE-4787	LED DRIVER 10 CLICK	LED driver	TLC59283
MIKROE-4965	LED DRIVER 13 CLICK	LED driver	A80604-1
MIKROE-4977	LED DRIVER 12 CLICK	LED driver	PCA9532
MIKROE-4996	LED DRIVER 14 CLICK	LED driver	BD18337EFV-M
MIKROE-2534	SIGFOX CLICK	Sigfox	SN10-11
MIKROE-3039	SIGFOX 2 CLICK	Sigfox	SN10-12
MIKROE-3163	SIGFOX 3 CLICK	Sigfox	SN10-13
MIKROE-924	MICROSD CLICK	SD	-
MIKROE-1839	RTC3 CLICK	RTC	BQ32000
MIKROE-1990	RTC5 CLICK	RTC	MCP79510
MIKROE-2063	RTC6 CLICK	RTC	MCP79410
MIKROE-2976	RTC 7 CLICK	RTC	MAX31341B
MIKROE-2993	RTC 6 CLICK	RTC	ICS501
MIKROE-3456	RTC 8 CLICK	RTC	RV-3028-C7
MIKROE-3770	RTC 10 CLICK	RTC	DS3231MZ+
MIKROE-4121	RTC 9 CLICK	RTC	M41T82
MIKROE-4288	RTC 11 CLICK	RTC	AB0815
MIKROE-4697	RTC 12 CLICK	RTC	DS1343
MIKROE-4794	RTC 13 CLICK	RTC	PCF2123
MIKROE-4799	RTC 14 CLICK	RTC	ISL1221
MIKROE-5083	RTC 16 CLICK	RTC	BU9873
MIKROE-5129	RTC 17 CLICK	RTC	RV5C387A
MIKROE-5192	RTC 18 CLICK	RTC	RV-3032-C7
MIKROE-948	RTC2 CLICK	RTC	DS1307
MIKROE-2821	RS485 3 CLICK	RS485	SN65HVD31DR
MIKROE-3395	RS485 4 CLICK	RS485	ADM2795E
MIKROE-4156	RS485 5 CLICK	RS485	MAX485
MIKROE-3349	UART I2C/SPI CLICK	RS232	MAX3237E, SC16IS740
MIKROE-4241	8-PIN I2C CLICK	extension	-
MIKROE-4774	8800 RETRO CLICK	extension	AS1115
MIKROE-1534	SPEAKUP CLICK	speech recognition	STM32F415RG, VS1053
MIKROE-2375	SPEAKUP 2 CLICK	speech recognition	FT900
MIKROE-3345	REC&PLAY CLICK	speech recognition	ISD3900
MIKROE-1881	4X4 RGB CLICK	RGB	MCP1826, WS2818 RGB LED
MIKROE-1434	RFID CLICK	RFID	CR95HF
MIKROE-1726	NFC TAG CLICK	RFID	M245R64
MIKROE-2395	NFC CLICK	RFID	PN7120
MIKROE-2462	NFC TAG 2 CLICK	RFID	NT3H1101

Symbol	Manufacturer's symbol	Kind of module	Components
MIKROE-3659	NFC TAG 4 CLICK	RFID	ST25DV16K
MIKROE-3971	NFC EXTEND CLICK	RFID	ST25DV16K
MIKROE-4208	RFID 2 CLICK	RFID	ID-12LA-SA
MIKROE-4309	NFC 2 CLICK	RFID	PN7150
MIKROE-4656	PLUG&TRUST CLICK	RFID	SE050C
MIKROE-4842	NFC 4 CLICK	RFID	ST25R3916
MIKROE-3598	SPIRIT 2 CLICK	RF	SP1ML
MIKROE-4230	ISM RX 2 CLICK	RF	SI4356
MIKROE-4242	ISM TX CLICK	RF	MAX41460
MIKROE-4625	ISM CLICK	RF	RFM75
MIKROE-4828	ISM RX 3 CLICK	RF	74LVC1G3157, MAX41470
MIKROE-4495	DAQ CLICK	data logger	ADAQ7768-1, ADP2300, ADP7182, ADR4540, LT3095
MIKROE-3325	POT 2 CLICK	selectable reference voltage source	MCP1541
MIKROE-3334	DIGIVREF CLICK	selectable reference voltage source	MCP1541
MIKROE-1592	BUCK CLICK	voltage regulator	LT3976
MIKROE-2443	VREG CLICK	voltage regulator	LM317, LMx58, MCP3204, MCP4921, ZXMP7A17K
MIKROE-2757	BOOST 4 CLICK	voltage regulator	TPS61230A
MIKROE-2762	MCP16331 CLICK	voltage regulator	MCP16331
MIKROE-2765	MIC23099 CLICK	voltage regulator	MIC23099
MIKROE-2780	BOOST CLICK	voltage regulator	MIC2606
MIKROE-2806	BUCK-BOOST CLICK	voltage regulator	LTC3129-1
MIKROE-3055	VREG 2 CLICK	voltage regulator	LM2596
MIKROE-3813	BOOST 6 CLICK	voltage regulator	TPS55332-Q1
MIKROE-4352	DRIVER 2 CLICK	voltage regulator	IR2104S, LM393
MIKROE-5183	RADAR CLICK	Radar	MMSD91-00
MIKROE-3148	PWM2 CLICK	PWM	LT8500
MIKROE-3870	ONE SHOT CLICK	PWM	LTC6993-2
MIKROE-2449	OLED SWITCH CLICK	button, OLED display	ISC15ANP4
MIKROE-1901	BUTTON R CLICK	button	-
MIKROE-2040	BUTTON G CLICK	button	-
MIKROE-2551	TAMPER CLICK	button	SDS001
MIKROE-2552	TAMPER 2 CLICK	button	D2HW-A221D
MIKROE-3262	BUTTON Y CLICK	button	3006.2111
MIKROE-3327	BUTTON PLAY CLICK	button	CTHS15CIC05ARROW
MIKROE-3740	BUTTON POWER CLICK	button	CTHS15CIC05ONOFF
MIKROE-3763	BUTTON ALARM CLICK	button	CTHS15CIC05ALARM
MIKROE-3131	V TO HZ 2 CLICK	U/f converter	TPS65131, VFC32KU
MIKROE-5250	V TO HZ 3 CLICK	U/f converter	AD7740
MIKROE-2890	HZ TO V CLICK	f/U converter	LM318, MIC2606, TC9400
MIKROE-3126	HZ TO V 2 CLICK	f/U converter	VFC32KU
MIKROE-2038	DAC 3 CLICK	D/A converter	MCP4726
MIKROE-3707	DAC 4 CLICK	D/A converter	MCP4728
MIKROE-3712	DAC 5 CLICK	D/A converter	DAC53608, MAX6106
MIKROE-3886	DAC 7 CLICK	D/A converter	AD5624R
MIKROE-4206	DAC 6 CLICK	D/A converter	DAC104S085, MCP1501
MIKROE-4229	DAC 8 CLICK	D/A converter	DAC60501MDGSR, DAC8554IPWR
MIKROE-4732	DAC 10 CLICK	D/A converter	DAC53401
MIKROE-4767	DAC 11 CLICK	D/A converter	DAC128S085
MIKROE-5097	DAC 12 CLICK	D/A converter	DAC60508
MIKROE-2690	ADAC CLICK	A/D converter, D/A converter	AD5593R
MIKROE-3861	AD-SWIO 2 CLICK	A/D converter, D/A converter	AD74413R, ADP1613, ADR4525BRZ
MIKROE-4081	AD-SWIO CLICK	A/D converter, D/A converter	AD74412R, ADP1613
MIKROE-1893	ADC 2 CLICK	A/D converter	MCP3551/3
MIKROE-2846	ADC 5 CLICK	A/D converter	ADC1215021
MIKROE-2879	ADC 4 CLICK	A/D converter	AD7175-8, LT6656
MIKROE-2932	ADC 6 CLICK	A/D converter	AD7124-8
MIKROE-3115	ADC 7 CLICK	A/D converter	LTC2500-32
MIKROE-3394	ADC 8 CLICK	A/D converter	ADS1115
MIKROE-4088	ISO ADC CLICK	A/D converter	AMC1204BDWR
MIKROE-4105	ADC 9 CLICK	A/D converter	MCP3564
MIKROE-4166	ISO ADC 2 CLICK	A/D converter	AD7091R, AD8616, ADuM5401
MIKROE-4376	ADC 12 CLICK	A/D converter	ADS7828
MIKROE-4383	ISO ADC 3 CLICK	A/D converter	AMC1100, MCP3221
MIKROE-4488	ADC 10 CLICK	A/D converter	ADS122U04, LT6656, MCP1501
MIKROE-4593	ADC 11 CLICK	A/D converter	LTC1864
MIKROE-4743	ADC 13 CLICK	A/D converter	ADS1262
MIKROE-4758	ISO ADC 5 CLICK	A/D converter	MAX22530
MIKROE-4890	ADC 15 CLICK	A/D converter	ADS131M02, LTC6903
MIKROE-4937	ADC 16 CLICK	A/D converter	ADS7142-Q1
MIKROE-4940	LOAD CELL 6 CLICK	A/D converter	MAX11270
MIKROE-4966	ADC 17 CLICK	A/D converter	MAX11645
MIKROE-4997	ADC 19 CLICK	A/D converter	ADC122S101
MIKROE-5132	ADC 18 CLICK	A/D converter	MAX22005
MIKROE-922	ADC CLICK	A/D converter	MCP3204
MIKROE-2814	SOLAR ENERGY CLICK	DC/DC converter	BQ25570
MIKROE-2835	MIC24055 CLICK	DC/DC converter	MIC24055
MIKROE-2887	MIC33153 CLICK	DC/DC converter	MIC33153
MIKROE-2894	BOOST 2 CLICK	DC/DC converter	MCP1642B
MIKROE-2911	BUCK 2 CLICK	DC/DC converter	MIC45404
MIKROE-2917	MCP16331 INV CLICK	DC/DC converter	MCP16331, MCP4921
MIKROE-2957	BUCK 6 CLICK	DC/DC converter	DS4432U, MAX17572
MIKROE-2971	BUCK 3 CLICK	DC/DC converter	TPS568215
MIKROE-2997	BUCK 8 CLICK	DC/DC converter	MAX17536
MIKROE-3035	NANO POWER CLICK	DC/DC converter	MAX17222
MIKROE-3057	BUCK 9 CLICK	DC/DC converter	MP9943A
MIKROE-3094	BUCK 7 CLICK	DC/DC converter	MAX17504
MIKROE-3100	BUCK 5 CLICK	DC/DC converter	MAX17506
MIKROE-3113	SMART BUCK CLICK	DC/DC converter	MIC2230

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## MIKROE Click Add-On Boards with mikroBUS Standard (cont.)

Symbol	Manufacturer's symbol	Kind of module	Components
MIKROE-3123	BOOST-INV 2 CLICK	DC/DC converter	TPS65131
MIKROE-3124	BOOST-INV CLICK	DC/DC converter	LTC3586
MIKROE-3201	3XBUCK CLICK	DC/DC converter	TPS65263
MIKROE-3277	BUCK-BOOST 3 CLICK	DC/DC converter	ISL85403
MIKROE-3438	BUCK 11 CLICK	DC/DC converter	LMR36015
MIKROE-3569	BUCK 10 CLICK	DC/DC converter	MPM3632C
MIKROE-3651	BUCK 13 CLICK	DC/DC converter	MPM3530
MIKROE-3652	BUCK 12 CLICK	DC/DC converter	MPQ8632
MIKROE-3709	STEP UP CLICK	DC/DC converter	MCP1665, MCP4921
MIKROE-3847	BUCK 14 CLICK	DC/DC converter	BMR4613001/001
MIKROE-3895	STEP DOWN 2 CLICK	DC/DC converter	L6986HTR
MIKROE-4287	BOOST 3 CLICK	DC/DC converter	TPS61391
MIKROE-4846	BUCK 16 CLICK	DC/DC converter	MCP4161, TPS62912
MIKROE-5169	STEP DOWN 3 CLICK	DC/DC converter	ST1PS03
MIKROE-1370	RELAY CLICK	relay	G6D1AASI-5DC
MIKROE-2481	FLICKER CLICK	relay	G6D-ASI, NA556
MIKROE-3357	RELAY 3 CLICK	relay	SRD-05VDC-SL-C
MIKROE-3415	THERMOSTAT 2 CLICK	relay	G6D1AASI-5DC
MIKROE-3724	THERMOSTAT 3 CLICK	relay	MAX31855
MIKROE-2702	SLIDER CLICK	linear slide potentiometer	MAX6969, MCP3551
MIKROE-3301	SLIDER 2 CLICK	linear slide potentiometer	PTA3043
MIKROE-3402	POT CLICK	linear rotary potentiometer	PTM10MV11-103A2020-S
MIKROE-3691	POT 3 CLICK	linear rotary potentiometer	MCP1501, MCP3201, OPA344
MIKROE-2332	DIGI POT 2 CLICK	digital potentiometer	TPL0501
MIKROE-2863	DIGI POT 5 CLICK	digital potentiometer	MCP4361
MIKROE-2873	DIGI POT 4 CLICK	digital potentiometer	MAX5494
MIKROE-3016	DIGI POT 3 CLICK	digital potentiometer	AD5321
MIKROE-3358	EVC CLICK	digital potentiometer	PT2258
MIKROE-4110	DIGI POT 6 CLICK	digital potentiometer	MCP41HV51
MIKROE-4414	DIGI POT 7 CLICK	digital potentiometer	-
MIKROE-4596	DIGI POT 8 CLICK	digital potentiometer	AD5206
MIKROE-4727	DIGI POT 9 CLICK	digital potentiometer	AD5235
MIKROE-923	DIGI POT CLICK	digital potentiometer	MCP4161
MIKROE-1507	PROTO CLICK	prototype board	-
MIKROE-3021	BARGRAPH 2 CLICK	LED strap	74HC595, XGURUGX10D
MIKROE-3264	BARGRAPH 3 CLICK	LED strap	74HC595, SMA-8500LE
MIKROE-1902	SRAM CLICK	SRAM memory	23LC1024
MIKROE-4178	SRAM 2 CLICK	SRAM memory	HSFPAR003A
MIKROE-4293	SRAM 3 CLICK	SRAM memory	ANV32AA1WDK66
MIKROE-4423	NVSRAM 2 CLICK	SRAM memory	CY14B101Q
MIKROE-4441	NVSRAM CLICK	SRAM memory	CY14B101J
MIKROE-4482	NVSRAM 4 CLICK	SRAM memory	CY14B101PA
MIKROE-4835	SRAM 4 CLICK	SRAM memory	CY14B512Q
MIKROE-3641	RERAM CLICK	ReRam memory	MB85AS4MT
MIKROE-4895	RERAM 2 CLICK	ReRam memory	MB85AS8MT
MIKROE-2914	MRAM CLICK	MRAM memory	MR25H256
MIKROE-4232	MRAM 2 CLICK	MRAM memory	BH18PB1WHFVCT, MR10Q010CSC, TXB0106
MIKROE-5191	MRAM 3 CLICK	MRAM memory	AS3001204
MIKROE-2768	FRAM 2 CLICK	FRAM memory	CY15B104Q
MIKROE-3104	EXCELON-LP CLICK	FRAM memory	CY15B108Q
MIKROE-3817	FRAM 3 CLICK	FRAM memory	MB94R330
MIKROE-4698	EXCELON-ULTRA CLICK	FRAM memory	CY15B116QSN
MIKROE-4831	FRAM 6 CLICK	FRAM memory	CY15B102Q
MIKROE-5119	FRAM 5 CLICK	FRAM memory	FM24V10
MIKROE-1199	FLASH CLICK	Flash memory	EN25Q80B
MIKROE-2267	FLASH2 CLICK	Flash memory	SST26VF064B
MIKROE-2374	FLASH 3 CLICK	Flash memory	IS25LP128
MIKROE-3191	FLASH 4 CLICK	Flash memory	S25FL512S
MIKROE-3780	FLASH 5 CLICK	Flash memory	W25N01GVZEIG
MIKROE-3823	SEMPER FLASH CLICK	Flash memory	S25HS512T
MIKROE-4028	SEMPER FLASH 2 CLICK	Flash memory	S25HL512T
MIKROE-4067	FLASH 6 CLICK	Flash memory	W25Q028JV
MIKROE-4440	FLASH 7 CLICK	Flash memory	BH18PB1WHFV, G025LQ16C, TXS0108E
MIKROE-4987	FLASH 9 CLICK	Flash memory	W25Q02JV
MIKROE-2728	EERAM 3.3V CLICK	EERAM memory	47L16
MIKROE-2729	EERAM 5V CLICK	EERAM memory	47C16
MIKROE-4129	EERAM 2 CLICK	EERAM memory	48LM01
MIKROE-4854	EERAM 3 CLICK	EERAM memory	48L256, TXB0106
MIKROE-1909	EEPROM 2 CLICK	EEPROM memory	24C08WP
MIKROE-1989	EEPROM 3 CLICK	EEPROM memory	AT24CM02
MIKROE-2733	MAC ADDRESS CLICK	EEPROM memory	24AA025E64
MIKROE-2760	SECURE 2 CLICK	EEPROM memory	ATAES132A
MIKROE-3762	DUAL EE CLICK	EEPROM memory	AT24CM02
MIKROE-4296	EEPROM 6 CLICK	EEPROM memory	DS28EC20
MIKROE-4421	EEPROM 7 CLICK	EEPROM memory	25C8M04
MIKROE-4422	EEPROM 5 CLICK	EEPROM memory	M95M04
MIKROE-4521	SWI EEPROM CLICK	EEPROM memory	AT21CS01
MIKROE-5073	EEPROM 8 CLICK	EEPROM memory	CAV24C512
MIKROE-1991	IR DISTANCE CLICK	optical range sensor	GP2Y0A60S20F
MIKROE-3103	LIGHTRANGER 3 CLICK	optical range sensor	RFD77402
MIKROE-4592	LIGHT RANGER 5 CLICK	optical range sensor	TMF8801
MIKROE-5237	LIGHTRANGER 9 CLICK	optical range sensor	TMF8801
MIKROE-2549	OPTO ENCODER CLICK	opto encoder	TCUT1600X01
MIKROE-3634	OPTO ENCODER 2 CLICK	opto encoder	AEDR-8300
MIKROE-3710	OPTO ENCODER 3 CLICK	opto encoder	TCUT1800X01

Symbol	Manufacturer's symbol	Kind of module	Components
MIKROE-1431	FM CLICK	FM receiver	LM4864, SI4703
MIKROE-3800	AM/FM CLICK	AM receiver, FM receiver	SI4731
MIKROE-2902	OOK RX CLICK	AM receiver	MICRF230
MIKROE-2903	OOK TX CLICK	AM receiver	MICRF114
MIKROE-4425	MAGIC RFID CLICK	NFC, RFID	M6E-NANO, SN74LVC1T45
MIKROE-4635	NTAG 5 LINK CLICK	NFC	NTP5332
MIKROE-5230	NFC TAG 5 CLICK	NFC	M24LR64E-R
MIKROE-3294	NB IOT CLICK	NB-IoT	Quectel BC95-9
MIKROE-4034	5G NB IOT CLICK	NB-IoT	ENS22
MIKROE-4472	NB IOT 5 CLICK	NB-IoT	OT01-5, TXS0108E
MIKROE-4769	NB IOT 4 CLICK	NB-IoT	C1-RM, FT230X, TPS7A7002, TXS0108E
MIKROE-1195	IRDA2 CLICK	IR transmitter, IR receiver	MCP2120, TFDU4101
MIKROE-1377	IR CLICK	IR transmitter, IR receiver	QEE113, TSOP38338
MIKROE-5088	IR 2 CLICK	IR transmitter, IR receiver	TSM58138
MIKROE-1939	IR BEACON CLICK	IR transmitter	VSMB2948SL
MIKROE-2822	RADIOSTATION CLICK	FM transmitter	SI4713-B30
MIKROE-3245	MUX 2 CLICK	analog multiplexer	MUX508
MIKROE-3247	MUX CLICK	analog multiplexer	MUX509
MIKROE-3878	UART MUX CLICK	analog multiplexer	SN74LV4052A
MIKROE-3916	MUX 3 CLICK	analog multiplexer	TMUX1208
MIKROE-4109	POWER MUX CLICK	analog multiplexer	TPS2115APWR
MIKROE-4111	ANALOG MUX CLICK	analog multiplexer	CD74HC4067
MIKROE-4468	ANALOG MUX 2 CLICK	analog multiplexer	ADG728
MIKROE-4494	UART MUX 2 CLICK	analog multiplexer	MAX3221, MAX399
MIKROE-4575	POWER MUX 2 CLICK	analog multiplexer	TPL0501, TPS2121
MIKROE-4754	MUX 4 CLICK	analog multiplexer	74HC4851
MIKROE-4795	ANALOG MUX 4 CLICK	analog multiplexer	TMUX1308
MIKROE-5120	ANALOG MUX 5 CLICK	analog multiplexer	MAX4634
MIKROE-4159	MP3 2 CLICK	MP3	KT403A
MIKROE-946	MP3 CLICK	MP3	VS1053
MIKROE-3737	BALANCER 3 CLICK	battery manager	BQ29200
MIKROE-3844	SINGLE CELL CLICK	battery manager	MCP16251, MCP1811A
MIKROE-3853	BALANCER 5 CLICK	battery manager	BQ25887
MIKROE-4058	BALANCER 2 CLICK	battery manager	MCP3202
MIKROE-5271	BALANCER 4 CLICK	battery manager	MP2672A
MIKROE-4335	EFUSE 2 CLICK	power supply monitor	AD5175, AD5241, TPS259631
MIKROE-4130	DMX CLICK	communications module	ADM2862E, PIC18F26K42
MIKROE-4331	ISO 9141 CLICK	communications module	L9637
MIKROE-4336	CXPI CLICK	communications module	BD41000AFJ-C
MIKROE-2371	NOISE CLICK	microphone	MCP4921
MIKROE-2563	MIC CLICK	microphone	SQ0410HR5H-B
MIKROE-3445	MIC 2 CLICK	microphone	AD5171, MCP6022
MIKROE-4136	MIC 3 CLICK	microphone	SSM2167-1RMZ-R7
MIKROE-4158	SMART MIC CLICK	microphone	IA611
MIKROE-2034	RF METER CLICK	signal strength measure	MCP3201
MIKROE-2064	STRETCH CLICK	stretch force measure	-
MIKROE-2065	FORCE CLICK	press force measure	Interlink Electronics Force Sensing Resistor
MIKROE-3168	LOAD CELL CLICK	press force measure	HX711
MIKROE-4046	FORCE 2 CLICK	press force measure	FSS015NGT
MIKROE-4047	LOAD CELL 2 CLICK	press force measure	NAU7802
MIKROE-4149	FORCE 3 CLICK	press force measure	FSR400, MCP3221
MIKROE-4193	FORCE 4 CLICK	press force measure	HSFPAR003A
MIKROE-4305	FORCE 5 CLICK	press force measure	FMAMSDXX025WC2C3
MIKROE-4458	LOAD CELL 4 CLICK	press force measure	ZSC31014
MIKROE-4510	LOAD CELL 5 CLICK	press force measure	AD7780
MIKROE-4658	LOAD CELL 3 CLICK	press force measure	PGA302
MIKROE-5276	LOAD CELL 7 CLICK	press force measure	ADSI230
MIKROE-2815	RTD CLICK	resistance meter	MAX31865
MIKROE-4282	RTD 2 CLICK	resistance meter	ADS1247
MIKROE-2376	C METER CLICK	capacitance meter	NE555
MIKROE-4353	VCT MONITOR CLICK	current meter, power supply monitor	LTC2990
MIKROE-2523	AC CURRENT CLICK	alternate current meter	MCP3201, MCP607
MIKROE-4039	VCP MONITOR CLICK	current meter	INA260
MIKROE-4126	VCP MONITOR 2 CLICK	current meter	INA3221-Q1
MIKROE-4222	VCP MONITOR 3 CLICK	current meter	LTC2947
MIKROE-4763	VCP MONITOR 4 CLICK	current meter	INA239
MIKROE-4276	TURBIDITY CLICK	turbidity meter	MCP3221
MIKROE-4939	TURBIDITY CLICK BUNDLE	turbidity meter	MIKROE-4276, TSD-10
MIKROE-3240	LDC1101 CLICK	inductance meter	LDC1101
MIKROE-3505	L METER CLICK	inductance meter	LM311
MIKROE-2910	PAC1921 CLICK	power meter	PAC1921
MIKROE-3150	PWR METER 2 CLICK	power meter	MCP3910
MIKROE-3169	PWR METER CLICK	power meter	MCP39F511A
MIKROE-4810	POWER MONITOR CLICK	power meter	INA228
MIKROE-4905	PAC1720 CLICK	power meter	PAC1720
MIKROE-4906	RF METER 3 CLICK	power meter	LT5581
MIKROE-1306	8X8 GREEN CLICK	LED matrix	MAX7219
MIKROE-2153	LED RING R CLICK	LED matrix	74HC595
MIKROE-2239	MATRIX RGB CLICK	LED matrix	FT900
MIKROE-2245	MATRIX R CLICK	LED matrix	MAX7219
MIKROE-2246	MATRIX G CLICK	LED matrix	MAX7219
MIKROE-2520	16X9 G CLICK	LED matrix	IS31FL3731
MIKROE-2758	16X12 G CLICK	LED matrix	IS31FL3733
MIKROE-4115	10X10 RGB CLICK	LED matrix	WS2812
MIKROE-4169	DOT MATRIX R CLICK	LED matrix	HCMS-3906
MIKROE-2539	GRID-EYE CLICK	thermal sensor array	AMG8853
MIKROE-4634	MR ANGLE CLICK	magnetometer	KMZ60, MCP3204
MIKROE-3001	UPS CLICK	supercapacitor charger	LTC3225
MIKROE-2033	CHARGER CLICK	charger	DS2438, MCP73831
MIKROE-2575	MCP73213 CLICK	charger	MCP73213

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**MIKROE Click Add-On Boards with mikroBUS Standard (cont.)**

Symbol	Manufacturer's symbol	Kind of module	Components
MIKROE-2858	MCP73871 CLICK	charger	MCP73871
MIKROE-2901	BATT-MAN CLICK	charger	LTC3586
MIKROE-3049	CHARGER 2 CLICK	charger	STBC08
MIKROE-3348	CHARGER 8 CLICK	charger	MAX17201, MAX8903B
MIKROE-3568	CHARGER 9 CLICK	charger	MAX1757
MIKROE-3650	CHARGER 11 CLICK	charger	MCP4161, MCP73123
MIKROE-3741	BATT-MON CLICK	charger	STC3115
MIKROE-3744	CHARGER 12 CLICK	charger	MAX1501, MCP4161
MIKROE-3748	CHARGER 13 CLICK	charger	RT9532GQW
MIKROE-3814	PELTIER CLICK	charger	SPV1050
MIKROE-4082	POWERBANK CLICK	charger	MP2632B
MIKROE-4116	POWERBANK 2 CLICK	charger	RT9480
MIKROE-4479	UPS 3 CLICK	charger	LTC3110
MIKROE-4768	CHARGER 16 CLICK	charger	LT1571
MIKROE-4837	BATT-MAN 2 CLICK	charger	MAX77654
MIKROE-4909	BATT-MAN 3 CLICK	charger	ADP5350ACPZ-1-R7
MIKROE-4990	CHARGER 18 CLICK	charger	LTC3553
MIKROE-5092	BATT-MON 4 CLICK	charger	LTC3337
MIKROE-5098	BATT-MON 3 CLICK	charger	BQS35100
MIKROE-2799	QI RECEIVER CLICK	induction charging	P9025AC
MIKROE-4345	QI RX CLICK	induction charging	MCP1755, MCP3221, MCP6001, MCP73830, PIC16F15313
MIKROE-3072	LTE IOT CLICK	LTE Cat 1	SARA-R410M
MIKROE-3144	LTE IOT 2 CLICK	LTE Cat 1	BGE96
MIKROE-3350	4G LTE-AT&T CLICK (FOR NORTH AMERICA)	LTE Cat 1	LARA-R202
MIKROE-3351	4G LTE-APJ CLICK (FOR ASIA PACIFIC)	LTE Cat 1	LARA-R280
MIKROE-3885	LTE CAT.1-US CLICK (FOR UNITED STATES)	LTE Cat 1	ELS61
MIKROE-4118	LTE IOT 3 CLICK	LTE Cat 1	EXS82-W, FT230X, MC34671
MIKROE-4465	LTE IOT 9 CLICK	LTE Cat 1	EXS62-W
MIKROE-4493	LTE IOT 8 CLICK	LTE Cat 1	FT2232D, SKY66430-11, TXS0108E
MIKROE-1917	COUNTER CLICK	quadrature counter	LS7366R
MIKROE-2735	PAC1934 CLICK	DC power/energy monitor	PAC1934
MIKROE-4291	PAC1954 CLICK	DC power/energy monitor	PAC1954
MIKROE-4478	PAC1944 CLICK	DC power/energy monitor	PAC1944
MIKROE-2479	LED FLASH CLICK	LED	CAT3224
MIKROE-2676	LED DRIVER CLICK	LED	MCP1662
MIKROE-2789	7X10 B CLICK	LED	74HC595, CD4017BM, ULN2003
MIKROE-2790	7X10 Y CLICK	LED	74HC595, CD4017BM, ULN2003
MIKROE-3567	PEDOMETER CLICK	pedometer	STP201M
MIKROE-4060	AN TO PWM CLICK	converter, PWM	OPA2365, TLV3201
MIKROE-4221	AN TO PWM 2 CLICK	converter, PWM	LTC6992CS6
MIKROE-1296	4-20MA T CLICK	converter	ADuM1411
MIKROE-1387	4-20MA R CLICK	converter	INA196, MCP3201, TPS61041
MIKROE-1433	CLICK USB ADAPTER	converter	FT2232H, MCP3204
MIKROE-1892	I2C 1 WIRE CLICK	converter	DS2482-800
MIKROE-1985	USB I2C CLICK	converter	MCP2221
MIKROE-2299	MCP2542 CLICK	converter	MCP2542FD
MIKROE-2889	V TO HZ CLICK	converter	MIC2606, TC9400
MIKROE-3276	LLC-I2C CLICK	converter	-
MIKROE-3298	LLC SPI CLICK	converter	-
MIKROE-3340	UART 1-WIRE CLICK	converter	DS2480B, TXB0106
MIKROE-5056	RS232 TO I2C CLICK	converter	ZDU0110RFX
MIKROE-986	CAN-SPI CLICK 3.3V	converter	SN65HVD230
MIKROE-988	CAN-SPI CLICK 5V	converter	MCP2551
MIKROE-2453	LCD MINI CLICK	alphanumeric display controller	MCP23S17, MCP4161
MIKROE-2004	FAN CLICK	fan controller	EMC2301
MIKROE-2708	FAN 2 CLICK	fan controller	MAX31760
MIKROE-2841	FAN 3 CLICK	fan controller	MIC29152, MIC74
MIKROE-3200	FAN 4 CLICK	fan controller	TC1695
MIKROE-3867	FAN 6 CLICK	fan controller	EMC2103, MIC2253
MIKROE-4824	FAN 8 CLICK	fan controller	MAX6615
MIKROE-3109	DRIVER CLICK	motor driver, relay driver	DRV777
MIKROE-3000	H-BRIDGE 2 CLICK	motor driver, H bridge	MPC17510
MIKROE-3031	H-BRIDGE CLICK	motor driver, H bridge	MC34933
MIKROE-3613	H-BRIDGE 3 CLICK	motor driver, H bridge	TLE9201SG
MIKROE-3787	H-BRIDGE 4 CLICK	motor driver, H bridge	AP1010AEN
MIKROE-3854	H-BRIDGE 5 CLICK	motor driver, H bridge	MP6515GF-Z
MIKROE-4143	H-BRIDGE 7 CLICK	motor driver, H bridge	DRV8876N
MIKROE-4289	H-BRIDGE 6 CLICK	motor driver, H bridge	PCA9538A, VNHD7008AY
MIKROE-4696	H-BRIDGE DRIVER CLICK	motor driver, H bridge	MC33883
MIKROE-4821	H-BRIDGE 9 CLICK	motor driver, H bridge	L99UDL01
MIKROE-4931	H-BRIDGE DRIVER 2 CLICK	motor driver, H bridge	NCV7537
MIKROE-5108	H-BRIDGE 10 CLICK	motor driver, H bridge	MP6523
MIKROE-2025	HAPTIC CLICK	vibration motor driver	DRV2605LDGST
MIKROE-2826	VIBRO MOTOR CLICK	vibration motor driver	DMG3420U
MIKROE-3713	VIBRO MOTOR 2 CLICK	vibration motor driver	DMG3420U, Z4FC1B1301781
MIKROE-4356	VIBRO MOTOR 3 CLICK	vibration motor driver	DRV2605, G0832022D
MIKROE-4452	HAPTIC 2 CLICK	vibration motor driver	LC898302AXA
MIKROE-4825	VIBRO MOTOR 4 CLICK	vibration motor driver	DRV2605, G1040003D
MIKROE-5087	HAPTIC 3 CLICK	vibration motor driver	DA7282
MIKROE-1926	STEPPER2 CLICK	stepper motor driver	A4988
MIKROE-2035	STEPPER 3 CLICK	stepper motor driver	ULN2003
MIKROE-2624	STEPPER 5 CLICK	stepper motor driver	TM2208
MIKROE-2748	STEPPER 4 CLICK	stepper motor driver	TB67S269FTG
MIKROE-2912	STEPPER 7 CLICK	stepper motor driver	MCP23S08, MTS62C19A
MIKROE-3214	STEPPER 6 CLICK	stepper motor driver	DRV8886

Symbol	Manufacturer's symbol	Kind of module	Components
MIKROE-3676	SILENT STEP 3 CLICK	stepper motor driver	TMC2660
MIKROE-3714	SILENT STEP CLICK	stepper motor driver	TMC5130
MIKROE-3736	STEPPER 13 CLICK	stepper motor driver	MP6500, PCA9538A
MIKROE-4125	STEPPER 14 CLICK	stepper motor driver	DRV8847PWPR, PCA9538A
MIKROE-4138	STEPPER 10 CLICK	stepper motor driver	TB67S128FTG
MIKROE-4157	STEPPER 8 CLICK	stepper motor driver	TC78H670FT
MIKROE-4547	STEPPER 17 CLICK	stepper motor driver	MCP1501, PCA9555A, TB67S539FTG
MIKROE-4578	STEPPER 11 CLICK	stepper motor driver	74HC75, MCP1804, PCA9538A, TB9120AFTG
MIKROE-4639	STEPPER 15 CLICK	stepper motor driver	DRV8889, PCA9538
MIKROE-4689	STEPPER 18 CLICK	stepper motor driver	DRV8426, MCP4726
MIKROE-4751	STEPPER 16 CLICK	stepper motor driver	NVC70517
MIKROE-5037	MULTI STEPPER CLICK - TB62262	stepper motor driver	TB62262FTG
MIKROE-5039	MULTI STEPPER CLICK - TB62269	stepper motor driver	TB62269FTG
MIKROE-5040	MULTI STEPPER CLICK - TB62261	stepper motor driver	TB62261FTG
MIKROE-5042	MULTI STEPPER CLICK - TB67S209	stepper motor driver	TB67S209FTG
MIKROE-5043	MULTI STEPPER CLICK - TB67S102	stepper motor driver	TB67S102AFNG
MIKROE-5044	MULTI STEPPER CLICK - TB67S101	stepper motor driver	TB67S101AFG
MIKROE-5045	MULTI STEPPER CLICK - TB67S269	stepper motor driver	TB67S269FTG
MIKROE-5051	MULTI STEPPER CLICK - TB67S261	stepper motor driver	TB67S261FTG
MIKROE-5052	MULTI STEPPER CLICK - TB67S109	stepper motor driver	TB67S109AFTG
MIKROE-2847	BRUSHLESS 6 CLICK	brushless motor driver	ATMEGA8
MIKROE-3019	BRUSHLESS 4 CLICK	brushless motor driver	MCP8063
MIKROE-4182	BRUSHLESS 7 CLICK	brushless motor driver	TC78B009FTG
MIKROE-4648	BRUSHLESS 14 CLICK	brushless motor driver	DAC43608, PCA9538, TB67B001FTG
MIKROE-4742	BRUSHLESS 16 CLICK	brushless motor driver	LB11685AV
MIKROE-4885	BRUSHLESS 15 CLICK	brushless motor driver	SSM6J808R, SSM6K809R, TB9061AFNG
MIKROE-4995	BRUSHLESS 22 CLICK	brushless motor driver	MTD6508
MIKROE-5055	BRUSHLESS 21 CLICK	brushless motor driver	AMT49400
MIKROE-5100	BRUSHLESS 23 CLICK	brushless motor driver	TC78B011FTG
MIKROE-1526	DC MOTOR CLICK	motor driver	74HC4053, DRV8833R7Y
MIKROE-1911	DC MOTOR 2 CLICK	motor driver	TB6593FNG
MIKROE-2047	DC MOTOR 3 CLICK	motor driver	TB6549FG
MIKROE-2441	BRUSHLESS CLICK	motor driver	MCP6281, Si4497DY, TB6575FNG
MIKROE-2699	DC MOTOR 5 CLICK	motor driver	DRV8701
MIKROE-2754	BRUSHLESS 2 CLICK	motor driver	DRV10964
MIKROE-2766	BRUSHLESS 3 CLICK	motor driver	DRV10983
MIKROE-2893	DC MOTOR 8 CLICK	motor driver	MIC2606, MIC4605
MIKROE-3289	DC MOTOR 7 CLICK	motor driver	TB67H400AFTG
MIKROE-3416	DC MOTOR 9 CLICK	motor driver	DRV8871
MIKROE-3543	STSPIN250 CLICK	motor driver	STSPIN250
MIKROE-3544	STSPIN820 CLICK	motor driver	STSPIN820
MIKROE-3545	STSPIN220 CLICK	motor driver	STSPIN220
MIKROE-3546	STSPIN233 CLICK	motor driver	STSPIN233
MIKROE-3649	DC MOTOR 11 CLICK	motor driver	DRV8830
MIKROE-3879	DC MOTOR 10 CLICK	motor driver	TLE 6208-6 G
MIKROE-3982	DC MOTOR 14 CLICK	motor driver	TB67H450FNG
MIKROE-4114	DC MOTOR 6 CLICK	motor driver	TB67H451FNG
MIKROE-4275	BRUSHLESS 8 CLICK	motor driver	DAC43608, LT1999-10, TB67Z800FTG, TC78B042FTG, TPS7A49
MIKROE-4333	DC MOTOR 16 CLICK	motor driver	MCP4161, ZXBM5210
MIKROE-4357	BRUSHLESS 12 CLICK	motor driver	L6235, LM358
MIKROE-4387	BRUSHLESS 9 CLICK	motor driver	SSM6K513NU, TC78B027FTG
MIKROE-4454	DC MOTOR 17 CLICK	motor driver	MAX6100, TC78H660FTG
MIKROE-4786	DC MOTOR 18 CLICK	motor driver	TB9051FTG
MIKROE-4877	DC MOTOR 21 CLICK	motor driver	A3910
MIKROE-4883	DC MOTOR 19 CLICK	motor driver	TC78H653FTG
MIKROE-4884	DC MOTOR 20 CLICK	motor driver	TC78H651AFNG
MIKROE-5000	BRUSHLESS 17 CLICK	motor driver	L6229-Q
MIKROE-5189	DC MOTOR 22 CLICK	motor driver	TMC7300
MIKROE-1898	PWM CLICK	PWM controller	PCA9685PW
MIKROE-5079	SOLIDSWITCH 3 CLICK	load driver	BD8LB600FS-C
MIKROE-1718	ETH WIZ CLICK	Ethernet controller	W5500
MIKROE-971	ETH CLICK	Ethernet controller	ENC28J60
MIKROE-1297	DALI CLICK	DALI controller	TLP181
MIKROE-2672	DALI 2 CLICK	DALI controller	-
MIKROE-4225	SINGLE WIRE CAN CLICK	CAN controller	NCV7356
MIKROE-1998	REED CLICK	reed switch	-
MIKROE-1915	COMPARATOR CLICK	comparator	LM2903
MIKROE-2891	TOUCHKEY 3 CLICK	7-button capacitive keypad	AT42QT1110
MIKROE-2964	CAP TOUCH 2 CLICK	6-button capacitive keypad	CAP1166
MIKROE-1906	TOUCHKEY CLICK	4-button capacitive keypad	TTP224
MIKROE-2965	TOUCH KEY 4 CLICK	3-button capacitive keypad	CAP1293
MIKROE-3203	CAP WHEEL CLICK	capacitive keypad	IQS333
MIKROE-3204	CAP SLIDER 2 CLICK	capacitive keypad	IQS333
MIKROE-3414	SAML TOUCH CLICK	capacitive keypad	ATSAML10
MIKROE-3677	CAP WHEEL 2 CLICK	capacitive keypad	QS263B
MIKROE-3771	POWER-RESET CLICK	capacitive keypad	74LVC1G74, AT42QT1011
MIKROE-3786	CAP TOUCH 5 CLICK	capacitive keypad	CY8CMBR3106S-LQXI
MIKROE-3409	ANALOG KEY CLICK	mechanical keyboard	-
MIKROE-2152	2X2 KEY CLICK	4-button keypad	74HC32
MIKROE-2474	TOUCHKEY 2 CLICK	4-button keypad	ATTINY817
MIKROE-1889	4X4 KEY CLICK	16-button keypad	HC165AG
MIKROE-1627	THUMBSTICK CLICK	joystick	MCP3204
MIKROE-2564	KEYLOCK CLICK	joystick	-
MIKROE-3711	JOYSTICK 2 CLICK	joystick	PCA9538A, SKRHABE010

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## MIKROE Click Add-On Boards with mikroBUS Standard (cont.)

Symbol	Manufacturer's symbol	Kind of module	Components
MIKROE-1878	I2C ISOLATOR CLICK	isolator	ISO1540
MIKROE-2627	CAN ISOLATOR CLICK	isolator	ADM3053
MIKROE-3015	OPTO 2 CLICK	isolator	TLP2770
MIKROE-3319	OPTO 3 CLICK	isolator	TLP241A
MIKROE-3863	RS485 ISOLATOR 2 CLICK	isolator	ADM2867E
MIKROE-4415	SPI ISOLATOR 2 CLICK	isolator	ISO7741
MIKROE-4467	I2C ISOLATOR 3 CLICK	isolator	CPC5902
MIKROE-4651	SPI ISOLATOR 3 CLICK	isolator	MAX14483
MIKROE-5265	SPI ISOLATOR 6 CLICK	isolator	MAX22345
MIKROE-2677	IR SENSE CLICK	IR	AK9750
MIKROE-3194	IR GRID 2 CLICK	IR	MLX90640
MIKROE-3743	I2C TO SPI CLICK	interface, converter	SC18IS602B
MIKROE-4644	I2C TO CAN CLICK	interface, converter	LT3960
MIKROE-1203	USB UART CLICK	interface	FT232RL
MIKROE-1204	USB SPI CLICK	interface	MCP2210
MIKROE-1582	RS232 CLICK	interface	MAX3232
MIKROE-2227	MCP2003B CLICK	interface	MCP2003B
MIKROE-2379	MCP2517FD CLICK	interface	ATA6563, MCP2517FD
MIKROE-2674	USB UART 2 CLICK	interface	ADUM4160BRWZ
MIKROE-2750	1-WIRE I2C CLICK	interface	DS28E17
MIKROE-2872	ATA663254 CLICK	interface	ATA663254
MIKROE-3993	RS485 6 CLICK	interface	THVD1329DT
MIKROE-4048	I2C MUX CLICK	interface	TCA9546A
MIKROE-4094	I2C MUX 2 CLICK	interface	TCA9545A
MIKROE-4184	SPI EXTEND CLICK	interface	LTC4332
MIKROE-4207	I2C EXTEND CLICK	interface	LTC4331
MIKROE-4240	I2C MUX 4 CLICK	interface	TCA9543A
MIKROE-4262	I2C MUX 3 CLICK	interface	AP7331, TCA9548A
MIKROE-4419	I2C EXTEND 2 CLICK	interface	PCA9615
MIKROE-4453	I2C MUX 5 CLICK	interface	LTC4306
MIKROE-4955	MCP251863 CLICK	interface	MCP251863
MIKROE-4974	TFMINI CLICK	interface	-
MIKROE-5069	I2C MUX 7 CLICK	interface	PI4MSD5V9547
MIKROE-5109	RS232 3 CLICK	interface	SP3221E
MIKROE-5168	I2C MUX 6 CLICK	interface	PCA9518
MIKROE-925	RS485 CLICK 5V	interface	ADM485
MIKROE-989	RS485 CLICK 3.3V	interface	SN65HVD12
MIKROE-4192	XSENS MTI-3 CLICK	IMU	FT230X, XSENS MTI-3
MIKROE-3045	IBUTTON CLICK	iButton	DS1990A
MIKROE-1375	GSM2 CLICK	GSM/GPRS	Quectel M95
MIKROE-1720	GSM3 CLICK	GSM/GPRS	SIM800H
MIKROE-2388	GSM 4 CLICK	GSM/GPRS	SARA-G3
MIKROE-2747	ANYNET 2G CLICK	GSM/GPRS	ES4623, PIC18F67J11, Quectel M95
MIKROE-2382	GSM-GPS CLICK	GPS, GSM/GPRS	MCP1826, SIM808, TXB0106, UG95
MIKROE-1714	GPS3 CLICK	GPS	L80
MIKROE-1912	NANO GPS CLICK	GPS	Nano Hornet
MIKROE-2704	GPS 4 CLICK	GPS	L70
MIKROE-5115	GPS 6 CLICK	GPS	AA2200-A
MIKROE-2440	GSM/GNSS 2 CLICK	GNSS, GSM/GPRS	SIM868
MIKROE-3739	THINGSTREAM CLICK	GNSS, GSM/GPRS	SIM868, STM32F407
MIKROE-4388	LTE IOT 6 CLICK	GNSS, GPS, LTE Cat 1	SARA-R412M, TSP7A7002
MIKROE-4477	LTE IOT 4 CLICK	GNSS, GPS, LTE Cat 1	NRF9160
MIKROE-4150	NANO GPS 2 CLICK	GNSS, GPS	ORG1510-MK05
MIKROE-4772	IRNSS CLICK	GNSS, GPS	L89H
MIKROE-1850	GNSS CLICK	GNSS	L86
MIKROE-1887	GNSS 2 CLICK	GNSS	L76
MIKROE-2045	GNSS 4 CLICK	GNSS	AMG8853
MIKROE-2670	GNSS 5 CLICK	GNSS	NEO-M8N
MIKROE-3660	GNSS ZOE CLICK	GNSS	ZOE-M8Q
MIKROE-3922	GNSS 7 CLICK	GNSS	NEO-M9N
MIKROE-4643	GNSS MAX CLICK	GNSS	MAX-M10S
MIKROE-4673	GNSS 8 CLICK	GNSS	FT230X, LC79DA, LT1965, TXS0108E
MIKROE-4662	SPEAKER CLICK	loudspeaker	MAX9717
MIKROE-4090	RNG CLICK	random number generator	ADS1115, NC7S14M5X
MIKROE-2032	PULSE CLICK	generator	NE555
MIKROE-3076	CLOCK GEN 2 CLICK	generator	DS1087L
MIKROE-3309	WAVEFORM CLICK	generator	AD9833
MIKROE-4113	CLOCK GEN CLICK	generator	SI5351A-B-GT
MIKROE-4171	CLOCK GEN 3 CLICK	generator	LTC6904
MIKROE-4300	CLOCK GEN 4 CLICK	generator	CS2200-CP
MIKROE-4346	WAVEFORM 2 CLICK	generator	AD9834, ADM8829, THS4551
MIKROE-4413	CLOCK GEN 5 CLICK	generator	LTC6903
MIKROE-4416	WATCHDOG CLICK	generator	TPS3430
MIKROE-4432	WAVEFORM 3 CLICK	generator	AD9837
MIKROE-4770	TDC CLICK	generator	TDC7200
MIKROE-4908	WAVEFORM 4 CLICK	generator	AD9106, ADA4817-2
MIKROE-4973	CLOCK GEN 6 CLICK	generator	MIC1557
MIKROE-2850	ETH 3 CLICK	ETHERNET	LAN9250
MIKROE-1822	ROTARY G CLICK	rotary encoder, LED matrix	EC12D
MIKROE-1824	ROTARY B CLICK	rotary encoder, LED matrix	EC12D
MIKROE-1825	ROTARY Y CLICK	rotary encoder, LED matrix	EC12D
MIKROE-2380	ROTARY O CLICK	rotary encoder, LED matrix	EC12D
MIKROE-3299	KNOB G CLICK	rotary encoder	PCA9956B
MIKROE-3471	KEYLOCK 2 CLICK	rotary encoder	SK13AEG13
MIKROE-2623	EMG CLICK BUNDLE	electromyograph	MAX6106
MIKROE-1838	EXPAND 2 CLICK	port expander	MCP23017
MIKROE-1874	EXPAND 3 CLICK	port expander	DS2408
MIKROE-1910	EXPAND 4 CLICK	port expander	TPCI6A595
MIKROE-4168	RF SWITCH CLICK	port expander	MASWSS0115
MIKROE-4186	EXPAND 5 CLICK	port expander	TCA6424A
MIKROE-4243	EXPAND 6 CLICK	port expander	CY8C9520A
MIKROE-4244	EXPAND 7 CLICK	port expander	CY8C9540A

Symbol	Manufacturer's symbol	Kind of module	Components
MIKROE-4801	EXPAND 10 CLICK	port expander	PCAL6524
MIKROE-4853	EXPAND 9 CLICK	port expander	SX1509QB
MIKROE-4887	EXPAND 13 CLICK	port expander	PI4IOE5V96248ZLEX
MIKROE-4889	EXPAND 12 CLICK	port expander	MAX7300
MIKROE-5241	EXPAND 14 CLICK	port expander	CAT9555
MIKROE-951	EXPAND CLICK	port expander	MCP23S17
MIKROE-2455	ECG CLICK	ECG	MAX6106, MCP609
MIKROE-3359	EKG CLICK	EKG	INA114, MCP6106, MPU6050
MIKROE-4500	ECG/GSR CLICK	ECG, GSR meter	AP7331, AS7030B
MIKROE-2477	2X5W AMP CLICK	dual-channel class D audio amplifier	TDA7491LP
MIKROE-2779	2X20W AMP CLICK	dual-channel class D audio amplifier	MAX9744
MIKROE-4298	DTMF GENERATOR CLICK	DTMF	HT9200A
MIKROE-4144	UVC CLICK	UVC diode	GUVC-T21GH
MIKROE-4177	UVC LIGHT CLICK	UVC diode	3535UVC1W, TPS61169
MIKROE-1444	THUNDER CLICK	lightning detector	AS3935, MA5532
MIKROE-4119	FINGERPRINT 2 CLICK	fingerprint reader	A-172-MRQ-K05A13001
MIKROE-4265	FINGERPRINT 3 CLICK	fingerprint reader	-
MIKROE-2913	BARCODE CLICK	barcode and QR code reader	LV3296
MIKROE-4195	BARCODE 2 CLICK	barcode and QR code reader	EM3080-W
MIKROE-2238	CAP EXTEND CLICK	proximity sensor, 12-button capacitive keypad	SX8633
MIKROE-1818	PROXIMITY 2 CLICK	proximity sensor	MAX44000
MIKROE-2801	PROXIMITY 3 CLICK	proximity sensor	VNCL4200
MIKROE-2920	PROXFUSION CLICK	proximity sensor	IQS624
MIKROE-2984	PROXIMITY 5 CLICK	proximity sensor	VNCL4035X01
MIKROE-3048	PROXIMITY 6 CLICK	proximity sensor	ADUX102
MIKROE-3439	PROXIMITY 8 CLICK	proximity sensor	VNCL36687S
MIKROE-3455	PROXIMITY 10 CLICK	proximity sensor	SI1143
MIKROE-3465	PROXIMITY 9 CLICK	proximity sensor	VNCL4040
MIKROE-3689	PROXIMITY 11 CLICK	proximity sensor	RPR-0521RS
MIKROE-3991	PROXIMITY 13 CLICK	proximity sensor	SI1153-AB09-GMR
MIKROE-3995	PROXIMITY 12 CLICK	proximity sensor	BH18P1WHFV, TMD3719
MIKROE-4469	PROXFUSION 3 CLICK	proximity sensor	IQS269A
MIKROE-4744	PROXIMITY 14 CLICK	proximity sensor	VNCL36825T
MIKROE-4822	PROXIMITY 15 CLICK	proximity sensor	VL53L1X
MIKROE-5084	PROXIMITY 17 CLICK	proximity sensor	TMD2635
MIKROE-1687	HTU21D CLICK	humidity/temperature sensor	HTU21D
MIKROE-1797	HDC1000 CLICK	humidity/temperature sensor	HDC1000
MIKROE-1798	DTH22 CLICK	humidity/temperature sensor	AM2302
MIKROE-2101	SHT CLICK	humidity/temperature sensor	SHT3x-DIS
MIKROE-2818	DTH22 2 CLICK	humidity/temperature sensor	CM2322
MIKROE-2937	TEMP-HUM 3 CLICK	humidity/temperature sensor	HDC2010
MIKROE-3085	TEMP&HUM 2 CLICK	humidity/temperature sensor	SI7034
MIKROE-3263	TEMP&HUM 8 CLICK	humidity/temperature sensor	SHT21
MIKROE-3270	TEMP&HUM 6 CLICK	humidity/temperature sensor	ENS210
MIKROE-3272	TEMP&HUM 7 CLICK	humidity/temperature sensor	SI7021-A20
MIKROE-3331	TEMP&HUM 9 CLICK	humidity/temperature sensor	SHTC3
MIKROE-3342	TEMP&HUM 10 CLICK	humidity/temperature sensor	BPS230
MIKROE-3425	TEMP&HUM 5 CLICK	humidity/temperature sensor	HIH6130
MIKROE-3436	TEMP&HUM 12 CLICK	humidity/temperature sensor	HDC2080
MIKROE-3469	TEMP&HUM 11 CLICK	humidity/temperature sensor	HDC1080
MIKROE-3635	TEMP&HUM 13 CLICK	humidity/temperature sensor	HTU21DF
MIKROE-3984	SHT AN CLICK	humidity/temperature sensor	SHT31-ARP
MIKROE-4194	THERMOSTAT 4 CLICK	humidity/temperature sensor	TMP392
MIKROE-4496	TEMP&HUM 15 CLICK	humidity/temperature sensor	PCA9306, SHT40
MIKROE-4702	TEMP&HUM 17 CLICK	humidity/temperature sensor	HS3001
MIKROE-4733	TEMP&HUM 16 CLICK	humidity/temperature sensor	2525020210001
MIKROE-4892	TEMP&HUM 18 CLICK	humidity/temperature sensor	HS3003
MIKROE-4907	TEMP&HUM 20 CLICK	humidity/temperature sensor	CC2D23, SiP32431DN
MIKROE-4922	TEMP&HUM 19 CLICK	humidity/temperature sensor	BPS240-D2P0-S10E
MIKROE-5240	TEMP&HUM 21 CLICK	humidity/temperature sensor	HIH8130-021-001
MIKROE-3084	MOISTURE CLICK	humidity sensor	FDC2112
MIKROE-4131	HYDRO PROBE CLICK	humidity sensor	MCP3221, MIC1557
MIKROE-4878	HUMIDITY CLICK	humidity sensor	HIH-5030, MCP3221
MIKROE-1927	VIBRA SENSE CLICK	vibration sensor	CD4093B2M
MIKROE-2561	EARTHQUAKE CLICK	vibration sensor	D7S
MIKROE-4355	VIBRA SENSE2 CLICK	vibration sensor	LDT0-028, MCP3221
MIKROE-1677	UV CLICK	UV sensor	ML8511

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**MIKROE Click Add-On Boards with mikroBUS Standard (cont.)**

Symbol	Manufacturer's symbol	Kind of module	Components
MIKROE-2378	UV 2 CLICK	UV sensor	VEML6075
MIKROE-4145	UVB CLICK	UV sensor	GUVB-C31SM
MIKROE-4911	UVA CLICK	UV sensor	GUVA-C32SM
MIKROE-2509	LIGHTRANGER 2 CLICK	ToF sensor, optical range sensor	VL53L0X
MIKROE-5206	LIGHTRANGER 10 CLICK	ToF sensor, optical range sensor	VL53L4CX
MIKROE-2966	IR SENSE 2 CLICK	temperature sensor, IR	AK9752
MIKROE-3983	THERMO 9 CLICK	temperature sensor, humidity sensor	TSYS01
MIKROE-1885	THERMO 3 CLICK	temperature sensor	TMP102
MIKROE-2571	THERMO 5 CLICK	temperature sensor	EMC1414
MIKROE-2622	IR GRID CLICK	temperature sensor	MLX90621BAD
MIKROE-2632	THERMO 4 CLICK	temperature sensor	LM75A
MIKROE-2769	THERMO 6 CLICK	temperature sensor	MAX31875
MIKROE-2979	THERMO 7 CLICK	temperature sensor	MCP9800
MIKROE-3004	TEMP-LOG 2 CLICK	temperature sensor	TMP116
MIKROE-3121	IR THERMO 3 CLICK	temperature sensor	MLX90632, PCA9306
MIKROE-3329	TEMP-LOG 4 CLICK	temperature sensor	SE97B
MIKROE-3437	TEMP-LOG 6 CLICK	temperature sensor	MAX6642
MIKROE-3442	TEMP-LOG 5 CLICK	temperature sensor	CAT34TS02
MIKROE-3600	THERMO 11 CLICK	temperature sensor	TMP117MAIDRV
MIKROE-3658	THERMO 15 CLICK	temperature sensor	NCT75
MIKROE-3662	THERMO 16 CLICK	temperature sensor	TMP235
MIKROE-3685	REMOTE TEMP CLICK	temperature sensor	EMC1833
MIKROE-3688	THERMO 13 CLICK	temperature sensor	BH1900NUX
MIKROE-3996	HEATER CLICK	temperature sensor	MCP3221, TMP235
MIKROE-4132	THERMO 14 CLICK	temperature sensor	STTS22H
MIKROE-4205	SURFACE TEMP CLICK	temperature sensor	ADT7420
MIKROE-4266	SURFACE TEMP 2 CLICK	temperature sensor	ADT7422
MIKROE-4295	THERMO 19 CLICK	temperature sensor	MAX31825
MIKROE-4316	THERMO 20 CLICK	temperature sensor	TSYS03
MIKROE-4829	THERMO 18 CLICK	temperature sensor	WSEN-TIDS
MIKROE-4879	THERMO 21 CLICK	temperature sensor	ADT7301
MIKROE-4979	THERMO 23 CLICK	temperature sensor	TMP144
MIKROE-5068	THERMO 22 CLICK	temperature sensor	TMP75C
MIKROE-5110	THERMO 24 CLICK	temperature sensor	STS40
MIKROE-3447	6DOF IMU 8 CLICK	motion sensor, gyroscope	ISM330DLC
MIKROE-3607	IR SENSE 3 CLICK	motion sensor, IR	AK9754
MIKROE-2030	ANGLE CLICK	motion sensor	A1332
MIKROE-2781	MICROWAVE CLICK	motion sensor	PD-V11
MIKROE-3187	MICROWAVE 2 CLICK	motion sensor	NJR4265RF2C1
MIKROE-3575	PRESENCE CLICK	motion sensor	74LVC1T45GM, PCA9306, TPIS1S1385
MIKROE-4049	MOTION 3 CLICK	motion sensor	EKMC1606112
MIKROE-4059	MOTION 2 CLICK	motion sensor	EKMC1607112
MIKROE-4078	MOTION 4 CLICK	motion sensor	EKMC1603111
MIKROE-2000	HEART RATE CLICK	heart rate sensor	MAX30100
MIKROE-2036	HEART RATE 3 CLICK	heart rate sensor	AFE4404, SFH7050
MIKROE-2510	HEART RATE 4 CLICK	heart rate sensor	MAX30101
MIKROE-2998	HEART RATE 7 CLICK	heart rate sensor	AFE4404
MIKROE-3012	HEART RATE 5 CLICK	heart rate sensor	AFE4404, SF7072
MIKROE-3215	HEART RATE 6 CLICK	heart rate sensor	BH1790GLC
MIKROE-3218	HEART RATE 8 CLICK	heart rate sensor	BH1792GLC
MIKROE-3273	ECG 3 CLICK	heart rate sensor	MAX30003
MIKROE-3427	ECG 4 CLICK	heart rate sensor	BMD101
MIKROE-3446	ECG 5 CLICK	heart rate sensor	AD8232
MIKROE-3822	HEART RATE 9 CLICK	heart rate sensor	SFH7060
MIKROE-4037	HEART RATE 2 CLICK	heart rate sensor	MAXM8616
MIKROE-4061	ECG 6 CLICK	heart rate sensor	MAX86150
MIKROE-4724	HEART RATE 10 CLICK	heart rate sensor	MAX8511, MAX86916, PCA9306
MIKROE-5170	HEART RATE 11 CLICK	heart rate sensor	OB1203
MIKROE-5214	ECG 7 CLICK	heart rate sensor	MCP6N16
MIKROE-3343	TILT 2 CLICK	tilt sensor	RB-441-45
MIKROE-3769	TMR ANGLE CLICK	tilt sensor	MCP3204, TLE5501
MIKROE-4753	INCLINOMETER CLICK	tilt sensor	SCL3300, TXB0106
MIKROE-5156	INCLINOMETER 2 CLICK	tilt sensor	IIS2ICLX
MIKROE-4036	RADIATION CLICK	radiation sensor	BG51
MIKROE-5078	GNSS 10 CLICK	position sensor	NEO-M8J
MIKROE-1646	BI HALL CLICK	magnetic field sensor	74LVC1T45, US2882
MIKROE-1886	MAGNETO CLICK	magnetic field sensor	AS5048A
MIKROE-1938	MAGNETO 2 CLICK	magnetic field sensor	MLX90316
MIKROE-1987	3D HALL CLICK	magnetic field sensor	MLX90333 Triaxis
MIKROE-2264	COMPASS 2 CLICK	magnetic field sensor	AK8963
MIKROE-2935	GEOMAGNETIC CLICK	magnetic field sensor	BMM160
MIKROE-3050	MAGNETO 5 CLICK	magnetic field sensor	MMC34160PJ
MIKROE-3099	GAUSSMETER CLICK	magnetic field sensor	MLX90393
MIKROE-3130	ANGLE 4 CLICK	magnetic field sensor	AEAT-800-Q24
MIKROE-3274	MAGNETIC LINEAR CLICK	magnetic field sensor	HMC1501
MIKROE-3275	MAGNETIC ROTARY CLICK	magnetic field sensor	HMC1512
MIKROE-3522	MAGNETO 4 CLICK	magnetic field sensor	AS5311
MIKROE-3657	MAGNETO 7 CLICK	magnetic field sensor	BM1422AGMV
MIKROE-4063	COMPASS 3 CLICK	magnetic field sensor	MMC5883MA
MIKROE-4106	TMR MIX-SENS CLICK	magnetic field sensor	LM3914, RR111-1DC2-331, RR121-1A23-311, RR121-3C63-311
MIKROE-4139	MAGNETO 6 CLICK	magnetic field sensor	TLI493DA2B6
MIKROE-4204	MAGNETO 8 CLICK	magnetic field sensor	AS5601
MIKROE-4231	COMPASS 4 CLICK	magnetic field sensor	AK09915C
MIKROE-4270	ANGLE 5 CLICK	magnetic field sensor	MA302
MIKROE-4498	3D HALL 8 CLICK	magnetic field sensor	TLI493D-W2BW
MIKROE-4561	AMR ANGLE CLICK	magnetic field sensor	AD4571, LTC1407
MIKROE-4778	MAGENTO 9 CLICK	magnetic field sensor	A1359, MCP3221

Symbol	Manufacturer's symbol	Kind of module	Components
MIKROE-4784	LDC CLICK	magnetic field sensor	LDC1312-Q1
MIKROE-4796	COMPASS 6 CLICK	magnetic field sensor	HSCDD008A
MIKROE-4866	MAGNETO 10 CLICK	magnetic field sensor	BH18PB1WHFV, MLX90392, PCA9306
MIKROE-4948	3D HALL 9 CLICK	magnetic field sensor	ALS31300
MIKROE-4952	MAGNETIC ROTARY 2 CLICK	magnetic field sensor	AET-9922
MIKROE-4971	ANGLE 8 CLICK	magnetic field sensor	MA782GGU
MIKROE-4981	AMR ANGLE 2 CLICK	magnetic field sensor	ADA4570
MIKROE-4991	MAGNETO 12 CLICK	magnetic field sensor	A31315
MIKROE-5067	MAGNETO 11 CLICK	magnetic field sensor	ASS510
MIKROE-5190	COMPASS 7 CLICK	magnetic field sensor	MMC5833NJL
MIKROE-5196	ANGLE 7 CLICK	magnetic field sensor	ASS600
MIKROE-5203	MAGNETIC ROTARY 3 CLICK	magnetic field sensor	ASS147
MIKROE-5223	MAGNETIC ROTARY 4 CLICK	magnetic field sensor	ASS047D
MIKROE-5282	ANGLE 6 CLICK	magnetic field sensor	MAQ470GQE
MIKROE-3339	PIR CLICK	infrared sensor	PL-N823-01
MIKROE-1834	TILT CLICK	tilt sensor	RPI-1035
MIKROE-2338	ANGLE 2 CLICK	tilt sensor	MA700
MIKROE-3815	GMR ANGLE CLICK	tilt sensor	TLI5012B E1000
MIKROE-4779	TILT 3 CLICK	tilt sensor	DSBA1P
MIKROE-4297	PH CLICK	pH sensor	pH EZO
MIKROE-2767	OZONE 2 CLICK	ozone sensor	MQ131
MIKROE-4654	OZONE 3 CLICK	ozone sensor	3SP-03-20, LMP9100, MCP1501, MCP3221, OPA344
MIKROE-1897	LIGHTRANGER CLICK	lighting sensor, optical range sensor	VL6180X
MIKROE-3330	PROXIMITY 7 CLICK	lighting sensor, proximity sensor	ADPS9930
MIKROE-3399	LIGHT TEMP CLICK	lighting sensor, proximity sensor	APDS-9930
MIKROE-2989	UV 4 CLICK	lighting sensor, UV sensor	Si1133
MIKROE-1424	LIGHT CLICK	lighting sensor	MAX6106EUR+, MCP3201, PD15-22C-TR8, TSL230BR
MIKROE-1903	AMBIENT 2 CLICK	lighting sensor	OPT3001
MIKROE-3199	AMBIENT 4 CLICK	lighting sensor	BH1721FVC
MIKROE-3320	AMBIENT 5 CLICK	lighting sensor	VEML6030
MIKROE-3444	AMBIENT 6 CLICK	lighting sensor	VEML7700
MIKROE-3452	AMBIENT 8 CLICK	lighting sensor	LTR-329ALS-01
MIKROE-3601	AMBIENT 7 CLICK	lighting sensor	OPA344, SFH5701A01
MIKROE-3686	AMBIENT 3 CLICK	lighting sensor	SF7225, AT25SF041
MIKROE-3990	AMBIENT 11 CLICK	lighting sensor	VEML6035
MIKROE-4148	LIGHT MIX-SENS CLICK	lighting sensor	TMD37253
MIKROE-4197	AMBIENT 9 CLICK	lighting sensor	APDS-9160-003
MIKROE-4777	AMBIENT 10 CLICK	lighting sensor	APDS-9006-020, MCP3221
MIKROE-4781	AMBIENT 12 CLICK	lighting sensor	BH1620FVC, MCP3221
MIKROE-4933	AMBIENT 16 CLICK	lighting sensor	BH1726NUC-E2
MIKROE-4943	AMBIENT 18 CLICK	lighting sensor	BH1680FVC
MIKROE-4967	AMBIENT 15 CLICK	lighting sensor	TSL2584TSV
MIKROE-5106	AMBIENT 17 CLICK	lighting sensor	TSL2572
MIKROE-5245	AMBIENT 19 CLICK	lighting sensor	APM-16D24-310-DF8/TR8
MIKROE-4165	SPECTROMETER CLICK	optical sensor array	AS7341
MIKROE-5167	SPECTROMETER 2 CLICK	optical sensor array	VD6283TX
MIKROE-1882	IR REFLECT CLICK	reflective photointerrupter	GP2S700HCP
MIKROE-1999	LINE FOLLOWER CLICK	reflective photointerrupter	QRE1113
MIKROE-3176	LIGHTRANGER 4 CLICK	reflective photointerrupter	VL53L1X
MIKROE-3102	OXIMETER CLICK	blood oxygen saturation sensor	ADPD105
MIKROE-4267	OXIMETER 3 CLICK	blood oxygen saturation sensor	VCNL4020C
MIKROE-4292	OXIMETER 2 CLICK	blood oxygen saturation sensor	ADP160, ADPD144RI
MIKROE-4986	OXIMETER 5 CLICK	blood oxygen saturation sensor	MAX30102
MIKROE-2086	IR GESTURE CLICK	colour sensor, lighting sensor, gesture recognition	APDS-9960
MIKROE-5146	IR GESTURE 2 CLICK	colour sensor, lighting sensor, gesture recognition	MAX25405
MIKROE-1988	COLOR2 CLICK	colour sensor	ISL29125
MIKROE-2103	COLOR 3 CLICK	colour sensor	TCS3771
MIKROE-2972	SPECTRAL CLICK	colour sensor	AS7261, AT25SF041
MIKROE-3061	COLOR 6 CLICK	colour sensor	AS73211
MIKROE-3107	COLOR 5 CLICK	colour sensor	P12347-01CT
MIKROE-3690	COLOR 9 CLICK	colour sensor	APDS-9250
MIKROE-3997	COLOR 10 CLICK	colour sensor	VEML3328
MIKROE-4741	COLOR 13 CLICK	colour sensor	APDS-9999
MIKROE-5121	COLOR 15 CLICK	colour sensor	CLS-16D24-44-DF8/TR8
MIKROE-4558	ENVIRONMENT 2 CLICK	air quality sensor, humidity/temperature sensor	PCA9306, SHT40
MIKROE-2896	AIR QUALITY 4 CLICK	air quality sensor	PCA9306, SPG30, SPX3819M5
MIKROE-2953	AIR QUALITY 3 CLICK	air quality sensor	CCS881
MIKROE-3056	AIR QUALITY 5 CLICK	air quality sensor	ADS1015
MIKROE-4196	AIR QUALITY 7 CLICK	air quality sensor	MI-CS-VZ-89-TE
MIKROE-4677	AIR FLOW CLICK	air quality sensor	LHDULTRAM012UB3
MIKROE-4904	AIR QUALITY 8 CLICK	air quality sensor	ZMOD4510
MIKROE-5060	AIR QUALITY 9 CLICK	air quality sensor	ENS160
MIKROE-2985	HALL SWITCH CLICK	Hall sensor, relay	AH1389
MIKROE-4788	HALL SWITCH 2 CLICK	Hall sensor, relay	MHA100KN
MIKROE-3205	PROXFUSION 2 CLICK	Hall sensor, lighting sensor, proximity sensor	IQS621
MIKROE-3190	3D HALL 2 CLICK	Hall sensor	TLV493D-A1B6

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## MIKROE Click Add-On Boards with mikroBUS Standard (cont.)

Symbol	Manufacturer's symbol	Kind of module	Components
MIKROE-3197	3D HALL 5 CLICK	Hall sensor	IIS2MDCTR
MIKROE-3310	3D HALL 3 CLICK	Hall sensor	LIS2MDL
MIKROE-3393	HALL CURRENT 5 CLICK	Hall sensor	ACS733
MIKROE-3443	HALL CURRENT 6 CLICK	Hall sensor	ACS723 IC
MIKROE-3629	3D HALL 7 CLICK	Hall sensor	AK09970N
MIKROE-3764	3D HALL 6 CLICK	Hall sensor	MCP3204, MLX90380
MIKROE-4005	INDEX COUNTER CLICK	Hall sensor	TLE4966K
MIKROE-5125	3D HALL 10 CLICK	Hall sensor	74HC4053, LIS2MDL
MIKROE-5188	3D HALL 11 CLICK	Hall sensor	TMAG5273
MIKROE-1587	LPG CLICK	gas sensor	MQ-5
MIKROE-2516	POLLUTION CLICK	gas sensor	WSP2110
MIKROE-2529	AIR QUALITY 2 CLICK	gas sensor	iAQ-Core sensor
MIKROE-4151	AMMONIA CLICK	gas sensor	MQ-137
MIKROE-4290	HVAC CLICK	gas sensor	SCD41
MIKROE-2560	SMOKE CLICK	smoke sensor	MAX30105
MIKROE-4299	SMOKE 2 CLICK	smoke sensor	ADG3308, ADPD188BI, LTC3459, LTC3531
MIKROE-3134	NDIR CO2 CLICK	carbon-dioxide sensor	MC34933
MIKROE-3196	CO 2 CLICK	carbon-dioxide sensor	LMP9100SD
MIKROE-4725	CO2 CLICK	carbon-dioxide sensor	STC31
MIKROE-3098	NO2 CLICK	nitrogen-dioxide sensor	LMP91000
MIKROE-3700	NO2 2 CLICK	nitrogen-dioxide sensor	MCP3201, MICS-2714
MIKROE-3202	SWIPESWITCH CLICK	touch sensor, proximity sensor	IQS266
MIKROE-2294	TOUCHCLAMP CLICK	touch sensor	MPR121
MIKROE-2888	CAP TOUCH CLICK	touch sensor	AT42QT1010
MIKROE-5204	LDC TOUCH CLICK	touch sensor	LD3114-Q1
MIKROE-5207	SMART SENS 2 CLICK	pressure sensor, magnetometer, programmable	BHI260AP, BME688, BMM150
MIKROE-3687	13DOF 2 CLICK	pressure sensor, humidity/temperature sensor, IMU	BME680, BMX160
MIKROE-1978	WEATHER CLICK	pressure sensor, humidity/temperature sensor	BME280
MIKROE-4348	PHT CLICK	pressure sensor, temperature sensor, humidity sensor	MS8607
MIKROE-3328	ALTITUDE 3 CLICK	pressure sensor, temperature sensor	ICP-10100
MIKROE-2467	ENVIRONMENT CLICK	pressure sensor, gas sensor, humidity/temperature sensor	BME680
MIKROE-4893	ENVIRONMENT 3 CLICK	pressure sensor, gas sensor, humidity/temperature sensor	BME688
MIKROE-1422	PRESSURE CLICK	pressure sensor	LPS331AP
MIKROE-1817	BAROMETER CLICK	pressure sensor	LPS25HB
MIKROE-2293	PRESSURE 3 CLICK	pressure sensor	DPS310
MIKROE-2387	DIFF PRESSURE CLICK	pressure sensor	MCP3551/3, MPXV5010DP
MIKROE-2550	MANOMETER 2 CLICK	pressure sensor	MS5525DSO-SB001GS
MIKROE-2665	LPS22HB CLICK	pressure sensor	LPS22HB
MIKROE-3020	PRESSURE 4 CLICK	pressure sensor	BMP280
MIKROE-3030	ALTITUDE 2 CLICK	pressure sensor	MS5607-02BA03
MIKROE-3195	VACUUM CLICK	pressure sensor	MPXV6115V
MIKROE-3216	PRESSURE 6 CLICK	pressure sensor	BM1386GLV
MIKROE-3246	PRESSURE 7 CLICK	pressure sensor	MS5837
MIKROE-3332	DIFF PRESS CLICK	pressure sensor	MPXV7007DP
MIKROE-3338	PRESSURE 8 CLICK	pressure sensor	MPRLS0025PA00001A
MIKROE-3411	PRESSURE 11 CLICK	pressure sensor	LPS33HW
MIKROE-3441	PRESSURE 9 CLICK	pressure sensor	DPS422
MIKROE-3466	PRESSURE 12 CLICK	pressure sensor	ABPLLNN600MGAA3
MIKROE-3566	PRESSURE 5 CLICK	pressure sensor	BMP388
MIKROE-3603	BAROMETER 2 CLICK	pressure sensor	LPS35HW
MIKROE-4127	ALTITUDE 4 CLICK	pressure sensor	NPA-201
MIKROE-4142	PRESSURE 10 CLICK	pressure sensor	HSPPAD042A
MIKROE-4190	BAROMETER 3 CLICK	pressure sensor	DPS368
MIKROE-4294	PRESSURE 13 CLICK	pressure sensor	KP229W2701
MIKROE-4424	PRESSURE 14 CLICK	pressure sensor	ABP2LANT060PG2A3
MIKROE-4667	VAV PRESS CLICK	pressure sensor	LMIS025B
MIKROE-4676	ULTRA-LOW PRESS CLICK	pressure sensor	SM8436
MIKROE-4747	PRESSURE 15 CLICK	pressure sensor	LPS27HHW
MIKROE-4765	PRESSURE 16 CLICK	pressure sensor	WSEN-PADS
MIKROE-4868	BAROMETER 4 CLICK	pressure sensor	BH18PB1WHFV, ICP-10111, PCA9306
MIKROE-4875	ALTITUDE 5 CLICK	pressure sensor	KP236, MCP3221, PCA9306
MIKROE-4894	DIFF PRESS 2 CLICK	pressure sensor	SPD31
MIKROE-4903	ALTITUDE 6 CLICK	pressure sensor	MS5611-01BA03
MIKROE-4913	BAROMETER 7 CLICK	pressure sensor	KP264XTMA1
MIKROE-4924	BAROMETER 5 CLICK	pressure sensor	MS5637-02BA03
MIKROE-4944	PRESSURE 17 CLICK	pressure sensor	BM1390GLV-Z
MIKROE-4978	BAROMETER 6 CLICK	pressure sensor	2SMPB-02E
MIKROE-5089	PRESSURE 19 CLICK	pressure sensor	MLX90817
MIKROE-5128	BAROMETER 8 CLICK	pressure sensor	ILPS22Q5
MIKROE-5153	PRESSURE 20 CLICK	pressure sensor	ICP-20100
MIKROE-5274	PRESSURE 21 CLICK	pressure sensor	BMP581
MIKROE-2786	WATER DETECT CLICK	liquid sensor	MCP606
MIKROE-1586	ALCOHOL CLICK	alcohol sensor	MQ-3

Symbol	Manufacturer's symbol	Kind of module	Components
MIKROE-3097	ALCOHOL 2 CLICK	alcohol sensor	LMP91000
MIKROE-3318	ALCOHOL 3 CLICK	alcohol sensor	MICS-5524
MIKROE-4381	ATA6571 CLICK	CAN, transceiver	ATA6571, MCP1804
MIKROE-2720	BUZZ 2 CLICK	buzzer	CMT-8540S-SMT
MIKROE-4390	BUZZ 3 CLICK	buzzer	PAM8904
MIKROE-2975	ANYNET 3G-EA CLICK	gateway	ES4623, PIC18F67J11, UG95
MIKROE-2439	GSM/GNSS CLICK	Bluetooth, GNSS, GSM/GPRS	MC60
MIKROE-3674	BLE 8 CLICK	Bluetooth V5.0 & BLE	ANNA-B112
MIKROE-3773	BLE 4 CLICK	Bluetooth V5.0 & BLE	NINA-B312
MIKROE-3872	BLE 7 CLICK	Bluetooth V5.0 & BLE	BGX13S22GA-V31
MIKROE-4038	BT-EZ CLICK	Bluetooth V5.0 & BLE	CYBT-343028-01
MIKROE-5135	BLE 10 CLICK	Bluetooth V5.0 & BLE	PAN1780-AT
MIKROE-4120	BLE 5 CLICK	Bluetooth V4.2 & BLE	PAN1760A
MIKROE-1597	BLE P CLICK	Bluetooth	nRF8001
MIKROE-1715	BLE2 CLICK	Bluetooth	N4020
MIKROE-2399	BT AUDIO CLICK	Bluetooth	RN52-1/RM
MIKROE-2471	BLE 3 CLICK	Bluetooth	NINA-B1
MIKROE-2543	RN4870 CLICK	Bluetooth	RN4870
MIKROE-2544	RN4871 CLICK	Bluetooth	RN4871
MIKROE-2545	RN4878 CLICK	Bluetooth	RN4878
MIKROE-4087	BLUETOOTH 2 CLICK	Bluetooth	WT41u
MIKROE-4117	BT AUDIO 2 CLICK	Bluetooth	BM62SPKS1MC2-0001AA
MIKROE-4170	BLE 6 CLICK	Bluetooth	BlueNRG-M2
MIKROE-4487	BLE 9 CLICK	Bluetooth	BM6220P
MIKROE-4668	BLE TX CLICK	Bluetooth	AK1595
MIKROE-4874	BLE 12 CLICK	Bluetooth	BM832A
MIKROE-4947	BT AUDIO 3 CLICK	Bluetooth	AK4430, BM83
MIKROE-2522	SECURE CLICK	authentication	ATECC508A
MIKROE-2761	SECURE 3 CLICK	authentication	ATSHA204A
MIKROE-3699	SECURE 6 CLICK	authentication	ATSHA204A
MIKROE-3746	SECURE UDFN CLICK	authentication	08QN50L43020
MIKROE-3774	SECURE 5 CLICK	authentication	ATECC508A
MIKROE-3788	SECURE SOIC CLICK	authentication	OTS-8(16)-1.27-03
MIKROE-3915	SECURE 7 CLICK	authentication	ATECC608A
MIKROE-5154	SECURE 8 CLICK	authentication	ATECC608B
MIKROE-3344	MIKROE-3344	audio	TDA7468D
MIKROE-4431	DSP CLICK	audio	RC4580, TPS65131, V1000, V4220
MIKROE-4450	VOLUME CLICK	audio	CS3310, LT3032, LT3463
MIKROE-4560	VOLUME 2 CLICK	audio	MIC2606, MIC5235, NUJ72341
MIKROE-2956	CLICK ANALYZER	mikroBUS port logic state analyzer	PIC16F1454, PIC18F26K42
MIKROE-4630	EFUSE 3 CLICK	ammeter, power supply monitor	MCP1541, MCP3551, NIS6150
MIKROE-4726	EFUSE CLICK	ammeter, power supply monitor	STPW12
MIKROE-3116	MULTIMETER CLICK	ammeter, capacitance meter, resistance meter, voltmeter	MCP607
MIKROE-4587	HALL CURRENT 10 CLICK	ammeter, Hall sensor	ACHS-7194, MCP3221
MIKROE-1578	HALL CURRENT CLICK	ammeter	TL14970-D050T4
MIKROE-2377	AMMETER CLICK	ammeter	MCP3201
MIKROE-3118	HALL CURRENT 3 CLICK	ammeter	MLX91210
MIKROE-3292	CURRENT 2 CLICK	ammeter	FAN4010, MCP1501, MCP3001
MIKROE-3308	HALL CURRENT 4 CLICK	ammeter	ACS70331
MIKROE-3812	AMR CURRENT CLICK	ammeter	MCR1101-20-5
MIKROE-4203	CURRENT 3 CLICK	ammeter	EMC1702
MIKROE-4271	CURRENT LIMIT CLICK	ammeter	MAX5401, MAX890L
MIKROE-4420	HALL CURRENT 7 CLICK	ammeter	ACS770, MCP3221
MIKROE-4466	HALL CURRENT 9 CLICK	ammeter	CQ-3300, MCP3221
MIKROE-4508	HALL CURRENT 8 CLICK - 120A	ammeter	DMP1046UFDB, TL14971-A120T5
MIKROE-4632	HALL CURRENT 8 CLICK - 25A	ammeter	DMP1046UFDB, TL14971-A025T5
MIKROE-4755	CURRENT 4 CLICK	ammeter	AP7331, INA250, LMV321
MIKROE-4797	HALL CURRENT 11 CLICK	ammeter	MCP3221, TMCS1108A2U
MIKROE-4798	HALL CURRENT 12 CLICK	ammeter	-
MIKROE-4914	CURRENT 6 CLICK	ammeter	MAX40080
MIKROE-4915	CURRENT LIMIT 6 CLICK	ammeter	MAX17608
MIKROE-4953	CURRENT 5 CLICK	ammeter	INA381
MIKROE-4972	CURRENT LIMIT 7 CLICK	ammeter	MAX14575A
MIKROE-4976	CURRENT 7 CLICK	ammeter	INA282
MIKROE-4999	CURRENT LIMIT 5 CLICK	ammeter	MIC2099
MIKROE-5066	HALL CURRENT 13 CLICK	ammeter	TMCS1107-Q1
MIKROE-5175	HALL CURRENT 15 CLICK	ammeter	TMCS1101-Q1
MIKROE-5239	HALL CURRENT 14 CLICK	ammeter	MCS1801
MIKROE-2237	MANOMETER CLICK	altimeter, pressure sensor	HSCMAND060PA3A3
MIKROE-1941	6DOF IMU CLICK	accelerometer, gyroscope	MAX21105
MIKROE-2337	6DOF IMU 2 CLICK	accelerometer, gyroscope	BMI160
MIKROE-2731	LSM6DSL CLICK	accelerometer, gyroscope	LSM6DS3
MIKROE-3410	6DOF IMU 4 CLICK	accelerometer, gyroscope	ICM-20602
MIKROE-3776	6DOF IMU 7 CLICK	accelerometer, gyroscope	ICM-20649
MIKROE-3827	6DOF IMU 9 CLICK	accelerometer, gyroscope	IAM-20680
MIKROE-4044	6DOF IMU 6 CLICK	accelerometer, gyroscope	ICM-20689

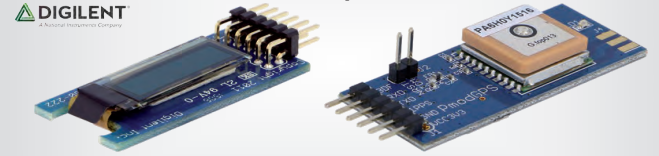
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**MIKROE Click Add-On Boards with mikroBUS Standard (cont.)**

Symbol	Manufacturer's symbol	Kind of module	Components
MIKROE-4086	6DOF IMU 3 CLICK	accelerometer, gyroscope	FXOS8700CQ
MIKROE-4089	6DOF IMU 5 CLICK	accelerometer, gyroscope	ICM-20789
MIKROE-4237	6DOF IMU 14 CLICK	accelerometer, gyroscope	ICM-42688-P
MIKROE-4330	6DOF IMU 15 CLICK	accelerometer, gyroscope	ASM330LHH
MIKROE-4785	6DOF IMU 17 CLICK	accelerometer, gyroscope	IIM-42652
MIKROE-1719	MPU 9DOF CLICK	accelerometer, magnetometer, gyroscope	MPU-9150
MIKROE-1877	3D MOTION CLICK	accelerometer, magnetometer, gyroscope	MM7150, SSC7150
MIKROE-1996	9DOF CLICK	accelerometer, magnetometer, gyroscope	LSM9DS1
MIKROE-3457	SMART DOF CLICK	accelerometer, magnetometer, gyroscope	BNO080
MIKROE-4128	9DOF 2 CLICK	accelerometer, magnetometer, gyroscope	ICM-20948
MIKROE-4153	9DOF 3 CLICK	accelerometer, magnetometer, gyroscope	BMX055
MIKROE-2684	LSM303AGR CLICK	accelerometer, magnetometer	LSM303AGR
MIKROE-3934	6DOF IMU 10 CLICK	accelerometer, magnetometer	KMX62-1031
MIKROE-4228	6DOF IMU 13 CLICK	accelerometer, magnetometer	MC6470
MIKROE-3869	6DOF IMU 11 CLICK	accelerometer, temperature sensor, magnetometer	KMX63-1055
MIKROE-4926	SMART SENS CLICK	accelerometer, magnetic field sensor	BHI260, BMM150
MIKROE-3775	13DOF CLICK	accelerometer, pressure sensor, carbon-dioxide sensor, humidity/temperature sensor, magnetometer, gyroscope	BME680, BMI088, BMM150
MIKROE-1905	ACCEL 2 CLICK	accelerometer	LIS3DSH
MIKROE-3075	ACCEL 6 CLICK	accelerometer	BMA280
MIKROE-3149	ACCEL 5 CLICK	accelerometer	BMA400
MIKROE-3259	PEDOMETER 3 CLICK	accelerometer	KX126-1063
MIKROE-3341	ACCEL 8 CLICK	accelerometer	MPU6050
MIKROE-3440	ACCEL 11 CLICK	accelerometer	BMA456
MIKROE-3464	ACCEL 12 CLICK	accelerometer	MC3216
MIKROE-3742	ACCEL 13 CLICK	accelerometer	IIS2DLPC
MIKROE-4112	ACCEL 10 CLICK	accelerometer	LIS2DW12
MIKROE-4185	ACCEL 14 CLICK	accelerometer	IIS3DWB
MIKROE-4501	ACCEL 15 CLICK	accelerometer	BMA490L
MIKROE-4559	PIEZO ACCEL CLICK	accelerometer	820M1-0025, LTC1864, MCP1541, TXB0106
MIKROE-4780	ACCEL 4 CLICK	accelerometer	FXL58974CF
MIKROE-4826	ACCEL 18 CLICK	accelerometer	MC3419
MIKROE-4855	ACCEL 17 CLICK	accelerometer	MXC62320MP, PCA9306
MIKROE-4876	ACCEL 16 CLICK	accelerometer	ADXL363
MIKROE-4888	ACCEL 20 CLICK	accelerometer	KX134-1211
MIKROE-4896	ACCEL 22 CLICK	accelerometer	ADXL367
MIKROE-4949	ACCEL 19 CLICK	accelerometer	LIS2DTW12
MIKROE-5198	ADAC 3 CLICK	ADC, DAC	PCF8591
MIKROE-1432	ADAPTER CLICK	adaptor	-
MIKROE-1576	PS/2 CLICK	adaptor	-
MIKROE-2100	RIVERDI CLICK	adaptor	-
MIKROE-2405	SKYWIRE CLICK	adaptor	MCP1826
MIKROE-2452	OBDDI CLICK	adaptor	STN1110
MIKROE-2796	BROADR-REACH CLICK	adaptor	ADM3252E
MIKROE-2864	RS232 ISOLATOR CLICK	adaptor	ADM3252E
MIKROE-2880	SHUTTLE CLICK	adaptor	-
MIKROE-2882	MIKROBUS SHUTTLE	adaptor	-
MIKROE-2897	RS232 2 CLICK	adaptor	MAX3237E
MIKROE-2900	ATA6570 CLICK	adaptor	ATA6570
MIKROE-2994	MICRO:BIT CLICK ADAPTER	adaptor	-
MIKROE-3044	4D-DISPLAY CLICK	adaptor	-
MIKROE-3063	USB UART 3 CLICK	adaptor	CP2102N
MIKROE-3642	RIBUS CLICK	adaptor	-
MIKROE-3725	FEATHER CLICK SHIELD	adaptor	-
MIKROE-3745	TERMINAL CLICK	adaptor	-
MIKROE-3932	LPCXPRESSO CLICK SHIELD	adaptor	-
MIKROE-4057	MONARCH ADAPTER CLICK	adaptor	0541670208, BH18PB1WHFV-TR
MIKROE-4123	XPRO-ADAPTER CLICK	adaptor	-
MIKROE-4176	ADI COG CLICK SHIELD	adaptor	-
MIKROE-4439	BINHO NOVA CLICK	adaptor	-
MIKROE-4925	SERIALIZER CLICK	adaptor	MAX31910
MIKROE-4951	TERMINAL 2 CLICK	adaptor	-
MIKROE-4970	CLICK SHIELD FOR PI 400	adaptor	ADS1115
MIKROE-4985	CLICK SHIELD FOR PI PICO	adaptor	-
MIKROE-5065	USB TO I2C 2 CLICK	adaptor	FT201X
MIKROE-5177	CLICK SHIELD FOR NUCLEO-32	adaptor	-
MIKROE-5193	CLICK SHIELD FOR NUCLEO-64	adaptor	-

Symbol	Manufacturer's symbol	Kind of module	Components
MIKROE-2527	4G LTE-E CLICK (EUROPE)	4G LTE	LARA-R211, MCP1826, TXB0106
MIKROE-2226	3G CLICK (FOR EUROPE AND AUSTRALIA)	3G	UG95
MIKROE-2244	3G SARA CLICK	3G	SARA-U201
MIKROE-3145	ANYNET 3G-AA CLICK	3G	UG95
MIKROE-3888	GO TO CLOUD (G2C) 3G CLICK	3G	MK64FN1M0VDC12, SARA-U201
MIKROE-2366	THUMBWHEEL CLICK	10-position rotary switch	DS2408
MIKROE-3062	COLOR 7 CLICK	10 DOF IMU, colour sensor	TCS3472

**DIGILENT Pmod standard expansion boards**

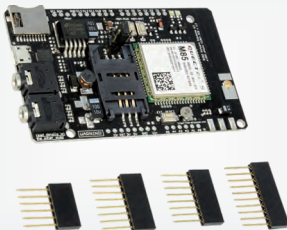


Manufacturer : DIGILENT

Symbol	Kind of module	Components
410-366	adaptor	-
410-380	adaptor	-
410-345	adaptor	SN74ALVC245PWR
410-084P	adaptor	-
410-261P	adaptor	-
410-094P	adaptor	-
411-000	adaptor	SD
410-123P	adaptor	SD cards socket
410-081P	adaptor	-
410-135P	adaptor	-
6003-410-018	adaptor	-
410-097P-KIT	accelerometer	ADXL345
410-255P-KIT	accelerometer	ADXL362
410-326	accelerometer, pressure sensor, magnetometer, gyroscope	LPS25HB, LSM9DS1
410-359	BLE	RN4870
410-377	BLE, WiFi	ESP32-WROOM-32
410-214P-KIT	Bluetooth	RN-42
410-333	pressure sensor, A/D converter	ADCS7476, MP3V5010DP
410-325	Hall sensor	ACS722
410-386	air quality sensor	CCS811
410-348	colour sensor	TCS3472
410-286P	lighting sensor	TEMT6000
410-086P	lighting sensor	LMV324MT, NL27WZ14-DF
410-347	humidity/temperature sensor	HDC1080
410-165P	resistor ladder	-
410-219P	port expander	AD5589
410-117P	rotary encoder	-
410-237P	GPS	FGPMMOPA6H
410-310P	interface	ADM582E
410-212P-KIT	interface	FT232R
410-330	joystick, RGB	dual axis, spring return, pushbutton enabled joystick, PIC16F1614
410-195P	16-button keypad	-
410-247P-KIT	capacitive keypad	AD7156
410-355	compass 3-axis	MMC34160PJ
410-259P	motor driver	DRV8833RTY
410-106P	motor driver	H-bridge
410-267P	motor driver	L293D
410-068P	converter	MAX3232
410-312	microphone	ADCS7476, SPA2410L45H-B
410-340	Flash memory	N25Q256A
410-136P	prototype board	-
410-343	prototype board	-
410-342	solid state relay	CPC1908J
410-083P	switches	-
410-217P	A/D converter	AD7991
410-243P	A/D converter	AD7193
410-265P-KIT	A/D converter	AD5112, ADM119
410-379	A/D converter, D/A converter	CS4344, CS5343
410-063P	D/A converter	AD7303 x2
410-245P	D/A converter	AD5628
410-218P-KIT	RTC	MCP79410
410-082P	servo driver	-
410-315	thermocouple	MAX31855K
240-071P	ultrasonic range finder	LV-MaxSonar-EZ1
410-194P-KIT	WiFi	MRF24WG0MA
410-062P	open collector outputs	MMBT3904 x4
410-341	LCD display	-
410-092P	LCD display	ATMEGA48, 16x2 alphanumeric display
410-126P	LED display	-
410-222P	OLED display	SSD1306, UG-2832HSWEG04
410-323	OLED display	SSD1331, UG-9664HDDAG01
410-270P-KIT	amplifier	SSM2518
410-320	logic level shifter	SN47LVC1T45
410-215P	gyroscope	L3G4200D

R&D SOFTWARE SOLUTIONS GSM shields

ALL



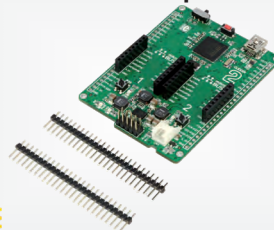
Manufacturer : R&D SOFTWARE SOLUTIONS

Symbol	Kind of module	Components
UGSM219-UG95E-SMA	3G	Quectel UG95E
UGSM219-UG95E-UFL	3G	Quectel UG95E
UGSM219-UG96-SMA	3G	Quectel UG96
UGSM219-UG96-UFL	3G	Quectel UG96
LLTE-CAT4-SMA-EUR	3G, 4G LTE, GLONASS, GPS, GSM/GPRS	Quectel EC21
LLTE-CAT4-UFL-EUR	3G, 4G LTE, GLONASS, GPS, GSM/GPRS	Quectel EC21
CUGSM113-UFL	3G, GSM/GPRS	Quectel M95
DU3G113-SMA-EUR	3G, GSM/GPRS	Quectel UG95
DU3G113-UFL-EUR	3G, GSM/GPRS	Quectel UG95
UGSM209-UG95E-SMA	3G, GSM/GPRS	Quectel UG95E
UGSM219-BG96-SMA	EGPRS, GNSS, LTE Cat M1, NB-IoT	Quectel BG96
UGSM219-BG96-UFL	EGPRS, GNSS, LTE Cat M1, NB-IoT	Quectel BG96
BGSM2105-BAP	GLONASS, GPS, GSM/GPRS	Quectel M95
AGSM2105-BAP	GSM/GPRS	Quectel M95
HNANOGSM108-UFL	GSM/GPRS	Quectel M66F
UGSM219-M95FA-SMA	GSM/GPRS/EDGE	Quectel M95FA
UGSM219-M95FA-UFL	GSM/GPRS/EDGE	Quectel M95FA
UGSM219-EG91E-SMA	LTE Cat 1	Quectel EG91E
UGSM219-EG91E-UFL	LTE Cat 1	Quectel EG91E
UGSM219-EG95E-SMA	LTE Cat 4	Quectel EG95E
UGSM219-EG95E-UFL	LTE Cat 4	Quectel EG95E
UGSM219-BC95G-SMA	NB-IoT	Quectel BC95G
UGSM219-BC95G-UFL	NB-IoT	Quectel BC95G

Application:

- IoT (UGSM219-xxx, LLTE-CAT4-SMA-EUR, LLTE-CAT4-UFL-EUR, HNANOGSM108-UFL)
- M2M (CUGSM113-UFL, DU3G113-SMA-EUR, DU3G113-UFL-EUR, UGSM209-UG95E-SMA, BGSM2105-BAP, AGSM2105-BAP)

MIKROE FT900 Clicker 2 development board



Manufacturer : MIKROE

Symbol	Manufacturer's symbol	Components
MIKROE-1724	CLICKER 2 FOR FT90X	FT900Q

Kind of connector : IDC10;  
pin strips;  
mikroBUS socket x2;  
USB B mini

Features : microcontroller I/O lines lead to goldpin connectors

Kit contents : documentation;  
header strips;  
prototype board

MIKROE development kits CLICKER for NXP microcontrollers



Manufacturer : MIKROE

Development kit : ARM NXP

Symbol	Manufacturer's symbol	Components
MIKROE-2329	CLICKER 2 FOR KINETIS	MK64FN1M0VDC12
MIKROE-2330	KINETIS CLICKER	MK22FN512LVH12

Interface : GPIO; I2C; PWM; SPI; UART; USB

Symbol : MIKROE-2329

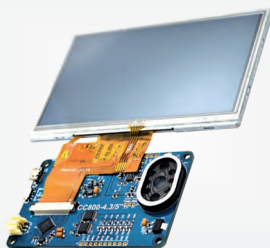
Kind of connector : pin strips;  
mikroBUS socket x2;  
USB B mini

Symbol : MIKROE-2330

Kind of connector : pin strips;  
mikroBUS socket;  
USB B mini

Other kits

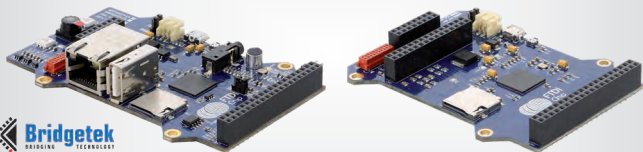
BRIDGETEK starter kits for EVE FT8xx devices



Manufacturer : BRIDGETEK

Symbol	Manufacturer's symbol	Development kit	Interface
VM800C43A-N	VM800C43A-N	EVE FT800	LCD 40pin; SPI
VM810C50A-D	VM810C50A-D	EVE FT810	LCD 40pin; SPI
VM810C50A-N	VM810C50A-N	EVE FT810	LCD 40pin; SPI
ME817EV	ME817EV	EVE BT817	LVDS 40-pin; RGB 50-pin; SPI; USB
VM816C50A-D	VM816C50A-D	EVE BT816	LCD 40pin; SPI
VM816C50A-N	VM816C50A-N	EVE BT816	LCD 40pin; SPI
VM816CU50A-D	VM816CU50A-D	EVE BT816	LCD 40pin; USB
VM816CU50A-N	VM816CU50A-N	EVE BT816	LCD 40pin; USB

BRIDGETEK development tools for FT9XX microcontrollers



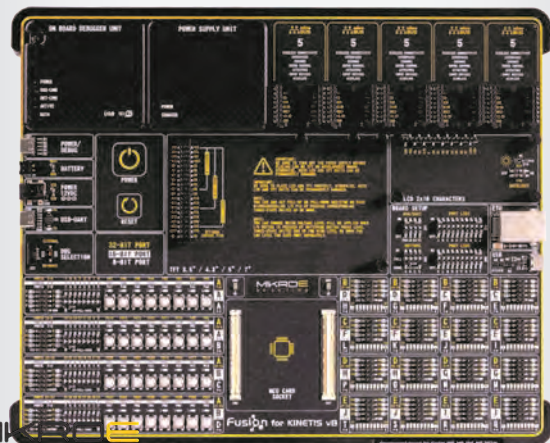
Manufacturer : BRIDGETEK

Development kit:

- FT900 (MM900EV-LITE, MM900EV3A)
- FT93x (MM930LITE, MM930MINI)

Symbol	Interface
MM900EV-LITE	GPIO; SPI Master; USB 2.0
MM900EV3A	10Base-T/100Base-TX; GPIO; SPI Master; USB
MM930LITE	GPIO; I2C - Master; I2C - Slave; SPI Master; SPI Slave; UART; USB 2.0
MM930MINI	GPIO; I2C - Master; I2C - Slave; SPI Master; SPI Slave; UART; USB 2.0

MIKROE development kits Fusion v8 for NXP microcontrollers



Manufacturer : MIKROE

Symbol	Manufacturer's symbol	Family
MIKROE-3513	FUSION FOR KINETIS V8	KINETIS
MIKROE-3515	FUSION FOR ARM V8 MK64FN1M0VDC12	ARM

Components : MK64FN1M0VDC12

Interface : CAN; UART; USB; WIFI

1

Developer tools

cont. on the next page

**MIKROE development kits Fusion v8 for NXP microcontrollers (cont.)**

Features : microcontroller I/O lines lead to goldpin connectors;  
integrated programmer/debugger

Kind of connector : Hirose 2x168;  
mikroBUS socket x5;  
RJ45;  
USB C;  
supply

**MIKROE development kits CLICKER for RENESAS microcontrollers**



**Symbol** : MIKROE-4350  
**Manufacturer** : MIKROE  
**Manufacturer's symbol** : RA4M1 CLICKER  
**Components** : R7FA4M1AB3CFM

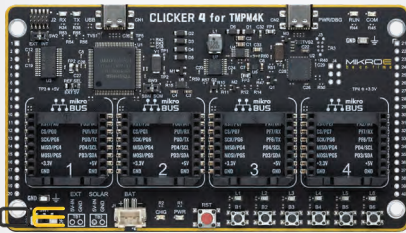
Interface : GPIO; I2C; PWM; SPI; UART; USB

Features : microcontroller I/O lines lead to goldpin connectors;  
integrated programmer/debugger

Kind of connector : JTAG/SWD;  
mikroBUS socket;  
USB C

Kit contents : documentation;  
header strips;  
prototype board

**MIKROE development kits CLICKER for TOSHIBA microcontrollers**



**Symbol** : MIKROE-4912  
**Manufacturer** : MIKROE  
**Manufacturer's symbol** : CLICKER 4 FOR TMPM4K  
**Components** : TMPM4KNFYAFG

Interface : GPIO; I2C; PWM; SPI; UART; USB

Kind of connector : JTAG/SWD;  
mikroBUS socket x4;  
USB C socket

**NORDIC SEMICONDUCTOR NRF-PPK2 development kit**



**Symbol** : NRF-PPK2  
**Manufacturer** : NORDIC SEMICONDUCTOR  
**Manufacturer's symbol** : POWER PROFILER KIT II

Development kit : evaluation

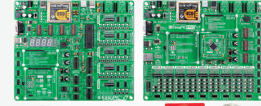
Kind of connector : pin strips;  
USB micro

Features : power board

Kit contents : holder;  
prototype board

Application : current consumption & voltage measurement

**MikroLab development sets by MIKROE**

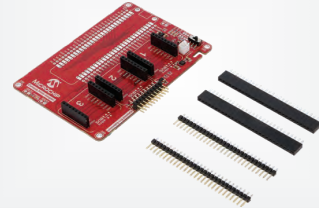


Manufacturer : MIKROE

Symbol	Development kit	Manufacturer's symbol
MIKROE-2006	Microchip PIC	MIKROLAB FOR PIC L
MIKROE-2007	Microchip PIC	MIKROLAB FOR PIC XL
MIKROE-2008	Microchip PIC	MIKROLAB FOR DSPIC
MIKROE-2009	Microchip PIC	MIKROLAB FOR DSPIC L
MIKROE-2010	Microchip PIC	MIKROLAB FOR DSPIC XL
MIKROE-2011	Microchip PIC	MIKROLAB FOR PIC32
MIKROE-2014	Microchip AVR	MIKROLAB FOR AVR L
MIKROE-2015	Microchip AVR	MIKROLAB FOR AVR XL
MIKROE-2016	STM32	MIKROLAB FOR STM32
MIKROE-2017	Tiva	MIKROLAB FOR TIVA
MIKROE-2018	8051	MIKROLAB FOR 8051
MIKROE-2019	8051	MIKROLAB FOR 8051 L
MIKROE-2637	Microchip PIC	MIKROLAB FOR MIKROMEDIA - PIC18FJ
MIKROE-2640	Microchip PIC	MIKROLAB FOR MIKROMEDIA - PIC18FK
MIKROE-2643	Microchip PIC	MIKROLAB FOR MIKROMEDIA - PIC24
MIKROE-2646	Microchip PIC	MIKROLAB FOR MIKROMEDIA - PIC24EP
MIKROE-2649	Microchip PIC	MIKROLAB FOR MIKROMEDIA - DSPIC33
MIKROE-2652	Microchip PIC	MIKROLAB FOR MIKROMEDIA - DSPIC33EP
MIKROE-2655	Microchip PIC	MIKROLAB FOR MIKROMEDIA - PIC32

↓ Accessories ↓

**Accessories to Curiosity / Curiosity Nano development board made by MICROCHIP TECHNOLOGY**



Manufacturer : MICROCHIP TECHNOLOGY

**Symbol** : AC80T88A  
Manufacturer series : Curiosity Nano  
Accessories : adapter  
Kind of connector : XPRO x2  
Add-on connectors : 2

Features : microcontroller I/O lines lead to goldpin connectors

Kit contents : prototype board

**Symbol** : AC164162  
Manufacturer series : Curiosity Nano  
Accessories : adapter  
Kind of connector : mikroBUS socket x3;  
XPRO plug;  
supply

Additional functions : Li-Ion cells charger;  
Li-Po cells charger

Add-on connectors : 4

Features : microcontroller I/O lines lead to goldpin connectors

Kit contents : prototype board

**Symbol** : AC320007  
Manufacturer series : Curiosity  
Accessories : display  
Display : TFT  
Screen size : 3.5"  
Resolution : 320x480  
Interface : 3-wire SPI; 4-wire SPI; RGB  
Add-on connectors : 2  
Kit contents : 50pin FFC cable;  
LCD display

Related articles:

Symbol	Product description
DM080103	Dev.kit:Microchip AVR;ATTINY;AC164162,AC80T88A
DM164144	Dev.kit:Microchip PIC;PIC16;AC164162,AC80T88A;Curiosity Nano
DM164148	Dev.kit:Microchip PIC;PIC16;AC164162,AC80T88A;Curiosity Nano
DM182028	Dev.kit:Microchip PIC;PIC18;AC164162,AC80T88A;Curiosity Nano
DM182029	Dev.kit:Microchip PIC;PIC18;AC164162,AC80T88A;Curiosity Nano
DM320115	Dev.kit:Microchip AVR;ATMEGA;AC164162,AC80T88A

## Accessories for DIGILENT data transmission development kits



**DIGILENT**  
A National Instruments Company

Manufacturer : DIGILENT

Symbol	Manufacturer's symbol	Accessories	Related items
<b>6002-240-011</b>	6002-240-011	case	6002-410-021
<b>6002-240-012</b>	6002-240-012	case	6002-410-022

Enclosure material : aluminium

Body col. : white

Kit contents : 4 non-slip feet;  
allen wrench;  
housing;  
screws

Operating temperature : -40...75°C



Programmers, debuggers

28



Compilers

31



2

Programmers, debuggers, compilers

Programmers, debuggers

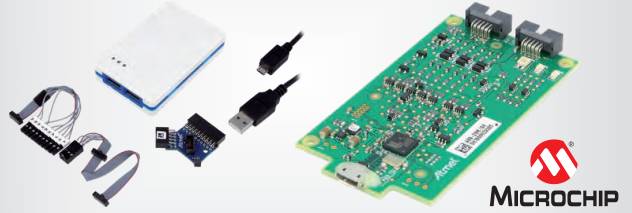
**EEPROM, FLASH and FRAM serial memory programmers from REVELTRONICS**



<b>Symbol</b>	Manufacturer
<b>REVELPROG-IS</b>	REVELTRONICS
Programmer	: memory
Communication with PC	: USB
Operating modes	: PC Host mode
Interface	: 1-wire; I2C; Microwire; SPI
Kind of interface	: serial
Kind of connector	: IDC10; SO8 socket; ZIF 32pin socket
Kit contents	: USB cable; programmer; cable for "in circuit" programming

- starts/stops/runs the program step by step
- Kit contents:
  - USB A - USB B mini cable
  - programmer
  - programmer test board

**ATMEL-ICE programmer/debugger for ATSAM ARM and 8bit and 32bit AVR microcontrollers**



<b>Symbol</b>	Manufacturer	Manufacturer's symbol
<b>ATATMEL-ICE</b>	MICROCHIP (ATMEL)	ATATMEL-ICE
<b>ATATMEL-ICE-BASIC</b>	MICROCHIP (ATMEL)	ATATMEL-ICE-BASIC
<b>ATATMEL-ICE-PCBA</b>	MICROCHIP (ATMEL)	ATATMEL-ICE-PCBA

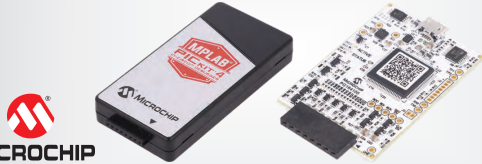
Associated circuits:

ARM MICROCHIP	AVR	AVR32
<b>Symbol</b>	Programmer	Interface
<b>ATATMEL-ICE</b>	debugger	aWire; JTAG; PDI; SWD; TPI
<b>ATATMEL-ICE-BASIC</b>	debugger	aWire; JTAG; PDI; SPI; SWD; TPI
<b>ATATMEL-ICE-PCBA</b>	debugger	aWire; JTAG; PDI; SPI; SWD; TPI
<b>Symbol</b>	Kit contents	
<b>ATATMEL-ICE</b>	adapter; debugger; USB cable; ribbon cable	
<b>ATATMEL-ICE-BASIC</b>	debugger; USB cable; ribbon cable	
<b>ATATMEL-ICE-PCBA</b>	debugger	

Related articles:

<b>Symbol</b>	Product description
<b>ATATMEL-ICE-ADPT</b>	Adapter; Assoc.circ: ARM MICROCHIP, AVR, AVR32; adapter
<b>ATATMEL-ICE-CABLE</b>	Connection cable; Assoc.circ: ARM MICROCHIP, AVR, AVR32

**MICROCHIP TECHNOLOGY PICKIT 4 / MPLAB® SNAP debugger/programmer**



Manufacturer : MICROCHIP TECHNOLOGY  
 Programmer : microcontrollers  
 Interface : JTAG; SWD; USB 2.0

<b>Symbol</b>	<b>PICKIT-4-ICD</b>	<b>MPLAB-SNAP</b>
Manufacturer's symbol	PG164140	PG164100
Associated circuits		
- AVR	x	x
- CEC	x	
- dsPIC	x	x
- PIC	x	x
- SAM MCU	x	x
- SAM MPU	x	x
Kind of connector		
- ICSP	x	x
- microSD	x	
- USB B micro	x	x
Operating modes		
- PC Host mode	x	x
- standalone programmer	x	
Kit contents		
- USB cable	x	
- programmer	x	x

**Emulator/debugger/programmer MPLAB® ICE4 made by MICROCHIP**



<b>Symbol</b>	Manufacturer	Manufacturer's symbol		
<b>MPLAB-ICE4</b>	MICROCHIP TECHNOLOGY	DV244140		
Programmer : microcontrollers				
Associated circuits:				
AVR	dsPIC	PIC	SAM MCU	SAM MPU
Interface : Ethernet; ISP; JTAG; USB 2.0; USB 3.0; WiFi				
Communication with PC : RJ45 Ethernet, USB, WiFi				
Kit contents : JTAG / SWD / ISP adapters; USB C cable; programmer; power supply 9V DC				

**MICROCHIP TECHNOLOGY MPLAB® ICD4 debugger/programmer**



<b>Symbol</b>	Manufacturer	Manufacturer's symbol		
<b>MPLAB-ICD4</b>	MICROCHIP TECHNOLOGY	DV164045		
Programmer : microcontrollers				
Interface : ISP; JTAG				
Communication with PC : USB				
Associated circuits:				
dsPIC30F	dsPIC33EP	dsPIC33F	PIC12F	PIC16F
PIC18F	PIC24EP	PIC24F	PIC24H	PIC32
Features:				
— real time debugger				
— firmware upgradeable from PC				
— possibility to use tracking variables and breakpoints by means of C language and assembler				
— data memory reading/writing/verification				
— program memory reading/writing/verification				
— overvoltage monitor				
— short circuit monitor				

**DIGILENT programmers**



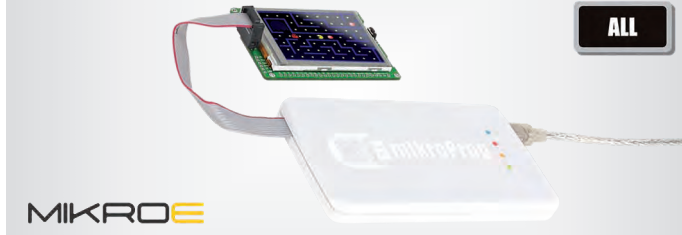
Manufacturer	: DIGILENT
Programmer	: Xilinx FPGA
Communication with PC : USB	
<b>Symbol</b>	Manufacturer's symbol
<b>410-299</b>	JTAG HS3 PROGRAMMING CABLE
<b>410-308P</b>	JTAG-SMT2-NC SM PROGRAMMING MODULE
<b>410-357-B</b>	JTAG-SMT3-NC PROGRAMMING MODULE
<b>6003-410-011P-KIT</b>	XUP USB-JTAG PROGRAMMING CABLE
<b>250-003P</b>	JTAG USB CABLE
<b>410-251</b>	JTAG SMT2 SURFACE-MOUNT PROGRAMMING MODU
<b>410-249P-KIT</b>	JTAG HS2 PROGRAMMING CABLE
<b>Symbol</b>	Interface
<b>410-299</b>	4-wire JTAG
<b>410-308P</b>	2-wire JTAG; 4-wire JTAG; SPI
<b>410-357-B</b>	2-wire JTAG; 4-wire JTAG; SPI
<b>250-003P</b>	6-wire JTAG

cont. on the next page

**DIGILENT programmers (cont.)**

Symbol	Interface
410-251	2-wire JTAG; 4-wire JTAG; SPI
410-249P-KIT	10pin debug; 2-wire JTAG; 4-wire JTAG; SPI

**MIKROE Programmers**



Manufacturer : MIKROE  
Communication with PC : USB

Symbol	Manufacturer's symbol	Associated circuits
MIKROE-764	MIKROPROG FOR PIC, DSPIC AND PIC32	dsPIC; PIC; PIC32
MIKROE-2511	MIKROPROG FOR MSP432	ARM Cortex M4; ARM TI
MIKROE-2331	MIKROPROG FOR KINETIS®	ARM NXP; K22, K64
MIKROE-1505	MIKROPROG FOR TIVA	ARM Cortex M3; ARM Cortex M4; TIVA
MIKROE-1383	MIKROPROG FOR AVR	AVR
MIKROE-1382	MIKROPROG FOR 8051	AT89LP; AT89S
MIKROE-1100	MIKROPROG FOR STM32	STM32

**MIKROE's CODEGRIP Fusion v8 programmers/debuggers**



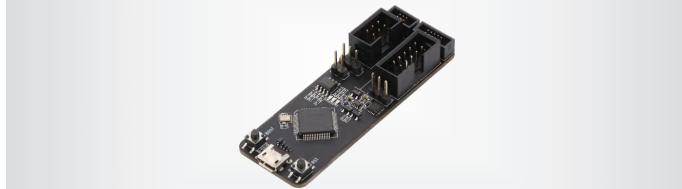
Manufacturer : MIKROE  
Kind of connector : JTAG; USB C

Features : step by step program execution  
Information : licence is not included

Symbol	Manuf. symb.	Communication with PC
MIKROE-3460	CODEGRIP FOR ARM	USB, WiFi
MIKROE-3461	CODEGRIP FOR STM32	USB, WiFi
MIKROE-3462	CODEGRIP FOR KINETIS	USB, WiFi
MIKROE-3463	CODEGRIP FOR TIVA	USB, WiFi
MIKROE-4544	CODEGRIP FOR PIC	USB, WiFi
MIKROE-5162	UNI CODEGRIP	USB, WiFi
MIKROE-5248	UNI CODEGRIP OVER USB-C	USB
MIKROE-5262	CODEGRIP FOR PIC OVER USB-C	USB
MIKROE-5273	CODEGRIP FOR ARM OVER USB-C	USB
MIKROE-5275	CODEGRIP FOR STM32 OVER USB-C	USB

Symbol	Associated circuits
MIKROE-3460	CEC; Kinetis; MSP430; MSP432; STM32; TIVA
MIKROE-3461	STM32
MIKROE-3462	Kinetis
MIKROE-3463	TIVA
MIKROE-4544	dsPIC; PIC
MIKROE-5162	AVR; CEC; dsPIC; GD32; Kinetis; MSP430; MSP432; PIC; PIC32; STM32; TIVA
MIKROE-5248	AVR; CEC; dsPIC; GD32; Kinetis; MSP430; MSP432; PIC; PIC32; STM32; TIVA
MIKROE-5262	dsPIC; PIC
MIKROE-5273	ARM Cortex M0; ARM Cortex M3; ARM Cortex M4; ARM Cortex M7
MIKROE-5275	STM32

**Programmings for ESPRESSIF SYSTEMS SoC's / modules**



Manufacturer : ESPRESSIF  
Communication with PC : USB

Symbol	Manufacturer's symbol	Associated circuits
ESP-PROG	ESP-PROG (WITH LINES)	ESP32; ESP8266
ESP32-DEVKITS	ESP32-DEVKITS	ESP32-WROOM
ESP32-DEVKITS-R	ESP32-DEVKITS-R	ESP32-WROVER

Symbol	Interface	Kind of connector
ESP-PROG	JTAG; UART; USB 2.0	JTAG x2; PROG x2; USB B micro
ESP32-DEVKITS	UART; USB	pin strips; USB B micro
ESP32-DEVKITS-R	UART; USB	pin strips; USB B micro

**OLIMEX programmers and debuggers**



Manufacturer : OLIMEX  
Communication with PC : USB

Symbol	Programmer	Interface	Associated circuits
AVR-ISP-MK2	microcontrollers	ISP; PDI; TPI	AVR
ARM-USB-OCD-H	debugger	JTAG; RS232	ARM
TMS320-XDS100-V3	microcontrollers	JTAG	ARM TI; DSP TI
AVR-JTAG-USB-A	microcontrollers	JTAG	AVR
TMS320-XDS100-V2	microcontrollers	JTAG	ARM TI; DSP TI
AVR-ISP500	microcontrollers	ISP	AVR
ARM-USB-TINY-H	debugger	JTAG	ARM
MSP430-JTAG-TINY-2	microcontrollers	JTAG	DSP TI
AVR-ISP500-ISO	microcontrollers	ISP	AVR
AVR-ISP500-TINY	microcontrollers	ISP	AVR

**ELNEC SMARTPROG2 programmers**



Symbol	Manufacturer	Manufacturer's symbol
SMARTPROG2	ELNEC	60-0038

Programmer : universal  
Communication with PC : USB  
Weight : 900g  
Body dim. : 95x160x32mm  
Kind of connector : ZIF 40pin socket

Associated circuits:

AVR	CYPRESS	EEPROM	EPROM
FLASH	MCS-48	MCS-51	NV RAM
PIC	PLD ATMEL	PSoC	SILICON LABS

Features:

- data formats: HEX, BIN, ABEL, CUPL, PALASM, TANGO PLD, OrCAD, JAM (STAPL), VME, JED, SVE
- can program 22223 ICs
- possibility of ISP programming
- software can be updated on the manufacturer's website
- test contact between IC and programmer's socket
- operate with Windows 98/Me/NT/2000/XP/2003/XPx64/VISTA

Kit contents:

- documentation
- ISP cable
- USB cable
- mains cable
- software
- antidust cover
- diagnostic socket for ZIF

BEEPROG programmers by ELNEC

Manufacturer : ELNEC  
 Programmer : universal



2

Programmers, debuggers, compilers

- Symbol** Communication with PC
- BEEPROG2** LPT, USB
- BEEPROG2C** USB
- BEEPROG3** RJ45 Ethernet, USB
- BEEPROG2AP** USB

Symbol	BEEPROG2	BEEPROG2C	BEEPROG3	BEEPROG2AP
<b>Associated circuits</b>				
- ARM7	X	X	X	X
- ARM9	X	X	X	X
- AVR	X	X	X	X
- AVR32	X		X	X
- CYPRESS	X	X	X	X
- EEPROM	X	X	X	X
- EPROM	X	X	X	X
- FLASH	X	X	X	X
- MCS-48	X		X	X
- MCS-51	X	X	X	X
- NV RAM	X	X	X	X
- PIC	X	X	X	X
- PLD ALTERA	X	X	X	X
- PLD LATTICE	X	X	X	X
- PLD XILINX	X	X	X	X
- PSoC	X	X	X	X
- SILICON LABS	X	X	X	X
- STMicroelectronics	X	X	X	X
- TEXAS INSTRUMENTS	X	X	X	X
- ZILOG	X	X	X	X
<b>Features</b>				
- data formats: HEX, BIN, ABEL, CUPL, PALASM, TANGO PLD, OrCAD, JAM (STAPL), VME, JED, SVE	X	X	X	X
- programming voltage within the range 1.8 to 26V; ground and supply voltage can be switched to any pin	X	X	X	X
- can program 28273 ICs			X	
- possibility of programming 53054 integrated circuits	X	X		X
- possibility of ISP programming	X	X	X	X
- software can be updated on the manufacturer's website	X	X	X	X
- test contact between IC and programmer's socket	X	X	X	X
- compatible with Windows 98/Me/NT/2000/XP/2003/XPx64/VISTA/7	X	X		X
- Windows XP/VISTA/7/8/10 support			X	

## Compilers

## MICROCHIP TECHNOLOGY C Compilers



Manufacturer : MICROCHIP TECHNOLOGY

Kit contents : software

**Symbol** : SW006021-1H

Accessories : HPA renewal

Related items : SW006021-1, SW006022-1, SW006023-1

**Symbol** : SW006021-2N

Features : C PRO compiler for 8bit Microchip microcontrollers;  
floating license

Accessories : compiler

Associated circuits : PIC10F;

PIC12F;

PIC16F;

PIC18F

**Symbol** : SW006022-2

Features : C PRO compiler for 16bit Microchip microcontrollers

Accessories : compiler

Associated circuits : dsPIC;

PIC24

**Symbol** : SW006023-3

Features : C++ PRO compiler for 32bit Microchip microcontrollers

Accessories : compiler

Associated circuits : PIC32

## MIKROE compilers and software



Manufacturer : MIKROE

**Symbol** Manufacturer's symbol

**MIKROE-722** MIKROBASIC PRO FOR AVR (USB DONGLE LICEN

**MIKROE-732** MIKROC PRO FOR AVR (USB DONGLE LICENSE)

**MIKROE-734** MIKROC PRO FOR DSPIC30/33 (USB DONGLE LI

**MIKROE-736** MIKROC PRO FOR PIC (USB DONGLE LICENSE)

**MIKROE-748** MIKROPASCAL PRO FOR PIC32 (USB DONGLE LI

**MIKROE-928** MIKROBASIC PRO FOR ARM (USB DONGLE LICEN

**MIKROE-932** MIKROPASCAL PRO FOR ARM (USB DONGLE LICE

**MIKROE-936** MIKROC PRO FOR ARM (USB DONGLE LICENSE)

**MIKROE-777** VISUAL TFT - LICENSE USB DONGLE

**MIKROE-2401** MIKROC PRO FOR FT90X (USB DONGLE)

**MIKROE-2402** MIKROBASIC PRO FOR FT90X (USB DONGLE)

**MIKROE-2403** MIKROPASCAL PRO FOR FT90X (USB DONGLE)

**Symbol** Kit contents Associated circuits

**MIKROE-722** USB key; DVD disc AVR

**MIKROE-732** USB key; DVD disc AVR

**MIKROE-734** USB key; DVD disc dsPIC30F; dsPIC33F; PIC24F; PIC24H

**MIKROE-736** USB key; DVD disc PIC10F; PIC12F; PIC16F; PIC18F

**MIKROE-748** USB key; DVD disc PIC32

**MIKROE-928** USB key; DVD disc ARM Cortex M3; ARM Cortex M4

**MIKROE-932** USB key; DVD disc ARM Cortex M3; ARM Cortex M4

**MIKROE-936** USB key; DVD disc ARM Cortex M3; ARM Cortex M4

**MIKROE-777** USB key ARM Cortex M3; ARM Cortex M4; AVR; dsPIC30F;  
dsPIC33F; FT800; PIC10F; PIC12F; PIC16F; PIC18F;  
PIC24F; PIC24H; PIC32

**MIKROE-2401** USB key FT90x

**MIKROE-2402** USB key FT90x

**MIKROE-2403** USB key FT90x



Embedded systems

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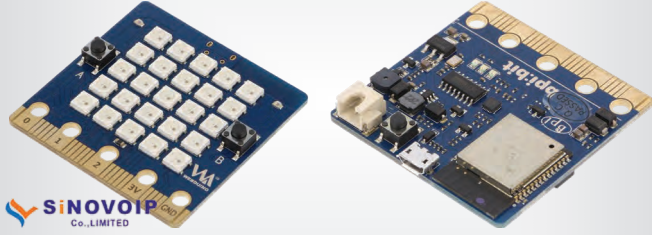


3

Embedded systems

Embedded systems

**BPI-BIT single board computer made by SINOVOIP**



Manufacturer : SINOVOIP

Symbol	Manufacturer's symbol	Kit	Processor
<b>BPI-BIT</b>	BPI-BIT	Single-board computer	Xtensa LX6 single / dual core
Interface		: ADC; DAC; eMMC; I2C x2; I2S x2; SD; SDIO; SPI x4; UART x3; WiFi	
Communications protocol		: Bluetooth 4.2, Bluetooth Low Energy, IEEE 802.11b/g/n/e/i	
Kind of connector		: 20pin edge; USB B micro	
Features		: 25 RGB diodes; Bluetooth/WiFi module	

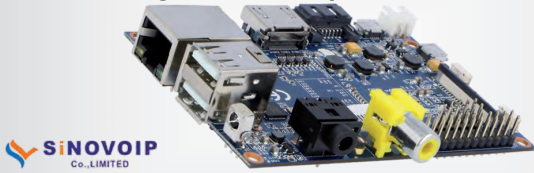
**Banana Pi Single Board Computer accessories**



Manufacturer : SINOVOIP

Symbol	Manufacturer's symbol	Accessories
<b>BANANA-GPIO-BD</b>	BANANA PI GPIO EXTEND BOARD	adapter
<b>BANANA-GPIO-MOD</b>	BANANA PI GPIO EXTEND MODULE	adapter
<b>BANANA-PI-D1</b>	BANANA PI BPI-D1	camera
<b>BPI-CAMERA</b>	BPI CAMERA	camera
<b>BPI-M3-CAMERA-DUAL</b>	BANANA PI BPI-M3 CAMERA (OV5640&OV8865)	camera
<b>BANANA-PROTO</b>	BANANA PI PROTOTYPING PI PLATE	prototype board
<b>BANANA-IO-BD</b>	BANANA PI IO EXTEND BOARD	expansion board
<b>S070WV20-CT16</b>	S070WV20-CT16	display

**Banana PI single board computers**



Manufacturer : SINOVOIP

Information : product is delivered without operating system installed

Symbol	Manufacturer's symbol	Architecture	Processor	Kind of memory	RAM [B]	Graphic unit
<b>BANANA-PI</b>	BANANA PI BPI-M1	Cortex A7	ARM A20 Dual-Core	DDR3	1G	ARM Mali-400MP2
<b>BANANA-PI-M1+</b>	BANANA PI BPI-M1+	Cortex A7	ARM A20 Dual-Core	DDR3	1G	ARM Mali-400MP2
<b>BANANA-PI-M2+</b>	BPI-M2+	Cortex A7	ARM H3 Quad-Core	DDR3	1G	ARM Mali-400MP2
<b>BANANA-PI-M2-ULTRA</b>	BPI-M2 ULTRA	Cortex A7	ARM R40 Quad-core	DDR3	2G	ARM Mali-400MP2
<b>BANANA-PI-M3</b>	BANANA PI BPI-M3	Cortex A7	ARM A83T Octa-Core	LPDDR3	2G	PowerVR SGX544MP2
<b>BANANA-PI-M4</b>	BANANA PI BPI-M4	Cortex A53	ARM A53 Quad-Core	DDR4, eMMC	1G	ARM Mali-470MP4
<b>BANANA-PI-M64</b>	BPI-M64	Cortex A53	ARM A53 Quad-Core	DDR3, eMMC	2G	ARM Mali-400MP2
<b>BANANA-PI-P2-ZERO</b>	BPI-P2 ZERO	Cortex A7	ARM H2+ Quad-Core	DDR3, eMMC	512M	ARM Mali-400MP2
<b>BANANA-PI-ZERO</b>	BPI-M2 ZERO	Cortex A7	ARM H2+ Quad-Core	DDR3	512M	ARM Mali-400MP2
<b>BPI-M2-BERRY</b>	BPI-M2 BERRY	Cortex A7	V40 Quad-Core	DDR3	1G	ARM Mali-400MP2
<b>BANANA-PI-R64</b>	BPI-R64	Cortex A53	ARM A53 Dual-Core	DDR3, eMMC	1G	-
<b>BANANA-PI-M4-2G</b>	PI-M4 (2GB RAM)	Cortex A53	ARM A53 Quad-Core	DDR4, eMMC	2G	ARM Mali-470MP4
<b>BANANA-PI-M5</b>	BPI-M5	Cortex A55	Amlogic S905X3 Quad-Core	LPDDR4, eMMC	4G	ARM Mali-G31
<b>BPI-M2S-A311D</b>	BPI-M2S(AMLOGIC A311D)	Cortex A53, Cortex A73	Amlogic A311D Quad-core	LPDDR4, eMMC	4G	ARM Mali-G52
<b>BPI-M2S-S922X</b>	BPI-M2S(AMLOGIC S922X)	Cortex A53, Cortex A73	Amlogic S922X Quad-Core	LPDDR4, eMMC	4G	ARM Mali-G52
<b>BPI-R2-PRO</b>	BPI-R2 PRO	Cortex A55	Rockchip RK3568	LPDDR4, eMMC	2G	ARM Mali-G52

**ConnectCore® series Single Board Computers by DIGI International.**



Manufacturer : DIGI INTERNATIONAL INC

Kit : Single-board computer

Manufacturer series : ConnectCore®

Information : product is delivered without operating system installed

Symbol	Manufacturer's symbol	Architecture	Processor	Frequency [Hz]	Flash [GB]	Kind of memory	RAM [GB]	Operating system support
<b>CC-WMX6UL-KIT</b>	CC-WMX6UL-KIT	Cortex A7	i.MX6UL-2	528M	1	DDR3	1	Yocto Linux
<b>CC-WMX8-KIT</b>	CC-WMX8-KIT	Cortex A35, Cortex M4F	i.MX8M QuadXPlus	1.2G	16	LPDDR4	2	Android, Yocto Linux
<b>CC-WMX8MM-KIT</b>	CC-WMX8MM-KIT	Cortex A53, Cortex M4	i.MX8M Mini Quad	1.6G	8	LPDDR4	2	Android, Yocto Linux
<b>CC-WMX8MN-KIT</b>	CC-WMX8MN-KIT	Cortex A53, Cortex M7	i.MX8M Nano Quad	1.4G	8	LPDDR4	1	Yocto Linux

UP Single Board Computers made by AAEON



Manufacturer : AAEON  
 Architecture : x86-64  
 Information : product is delivered without operating system installed

Symbol : **UP-CHT01-A1xxx, UPCHT01-A2xxx-B**

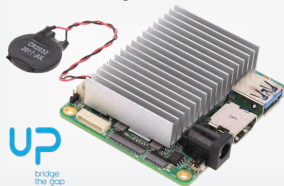
Operating system support : Android, Linux, Windows® 10

Symbol : **UPAPL03xxx**

Operating system support : Linux, Windows® 10, Windows® 10 IoT

Symbol	Manufacturer's symbol	Processor	Flash [GB]	RAM [GB]
UP-CHT01-A10-0232	UP-CHT01-A20-0232-A11	Intel® Atom x5 Z8350	32	2
UP-CHT01-A10-0432	UP-CHT01-A20-0432-A11	Intel® Atom x5 Z8350	32	4
UP-CHT01-A10-0464	UP-CHT01-A20-0464-A11	Intel® Atom x5 Z8350	64	4
UP-CHT01-A12-0216	UP-CHT01-A22-0216-A11	Intel® Atom x5 Z8350	16	2
UP-CHT01-A12-0432	UP-CHT01-A22-0432-A11	Intel® Atom x5 Z8350	32	4
UP-CHT01-A10-0216	UP-CHT01-A20-0216-A11	Intel® Atom x5 Z8350	16	2
UPCHT01-A20-0232-B	UP-CHT01-A20-0232-B10	Intel® Atom x5 Z8350	32	2
UPCHT01-A20-0432-B	UP-CHT01-A20-0432-B10	Intel® Atom x5 Z8350	32	4
UPCHT01-A20-0464-B	UP-CHT01-A20-0464-B10	Intel® Atom x5 Z8350	64	4
UPCHT01-A22-0216-B	UP-CHT01-A22-0216-B10	Intel® Atom x5 Z8350	16	2
UPCHT01-A20-0216-B	UP-CHT01-A20-0216-B10	Intel® Atom x5 Z8350	16	2
UPCHT01-A22-0432-B	UP-CHT01-A22-0432-B10	Intel® Atom x5 Z8350	32	4
UPAPL03C2F-A100216	UP-APL03C2F-A10-0216	Intel® Celeron® N3350	16	2
UPAPL03C2F-A100232	UP-APL03C2F-A10-0232	Intel® Celeron® N3350	32	2
UPAPL03C2F-A100432	UP-APL03C2F-A10-0432	Intel® Celeron® N3350	32	4
UPAPL03P4F-A100432	UP-APL03P4F-A10-0432	Intel® Pentium® N4200	32	4
UPAPL03P4F-A100864	UP-APL03P4F-A10-0864	Intel® Pentium® N4200	64	8
UPAPL03X7F-A100464	UP-APL03X7F-A10-0464	Intel® Atom x7 E3950	64	4

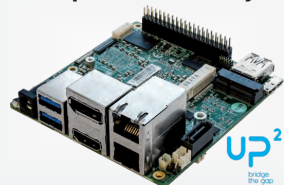
UP Core single board computers made by AAEON



Manufacturer : AAEON  
 Kit : Single-board computer  
 Architecture : x86-64  
 Information : product is delivered without operating system installed  
 Interface : eDP; I2S; MIPI-CSI2; MIPI-CSI4; USB 2.0; USB 3.0; WiFi  
 Operating system support : Android, ubilinux, Ubuntu, Windows® 10, Yocto Linux

Symbol	Manufacturer's symbol	Processor	RAM [GB]	Flash [GB]
UPC-CHT01-A10-0116	UPC-CHT01-A20-0116-A11	Intel® Atom x5 Z8350	1	16
UPC-CHT01-A10-0216	UPC-CHT01-A20-0216-A11	Intel® Atom x5 Z8350	2	16
UPC-CHT01-A10-0232	UPC-CHT01-A20-0232-A11	Intel® Atom x5 Z8350	2	32
UPC-CHT01-A10-0432	UPC-CHT01-A20-0432-A11	Intel® Atom x5 Z8350	4	32
UPC-CHT01-A10-0464	UPC-CHT01-A20-0464-A11	Intel® Atom x5 Z8350	4	64
UPC-PLX5D-A20-0232	UPC-PLUSX5D-A20-0232	Intel® Atom x5 E3940	2	32
UPC-PLX5Q-A20-0464	UPC-PLUSX5Q-A20-0464	Intel® Atom x5 E3940	4	64
UPC-PLX7-A20-0864	UPC-PLUSX7-A20-0864	Intel® Atom x7 E3950	8	64
UPC-PLX7-A20-08128	UPC-PLUSX7-A20-08128	Intel® Atom x7 E3950	8	128

UP2 single board computers made by AAEON

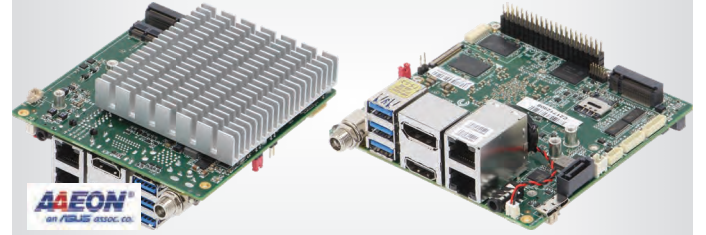


Manufacturer : AAEON  
 Kit : Single-board computer  
 Architecture : x86-64  
 Memory : DDR4  
 GPU : Intel® Gen 9 HD  
 Interface : eDP; Ethernet x2; GPIO; MIPI-CSI2; USB 2.0; USB 3.0  
 Information : product is delivered without operating system installed  
 Operating system support : Android, Linux, Windows® 10

Symbol	Manufacturer's symbol	Processor	Flash [GB]	RAM [GB]
UPS-C2-A10-0232	UPS-APLC2F-A20-0232	Intel® Celeron® N3550	32	2
UPS-C2-A10-0432	UPS-APLC2F-A20-0432	Intel® Celeron® N3550	32	4
UPS-P4-A10-0432	UPS-APLP4-A20-0432	Intel® Pentium® N4200	32	4

Symbol	Manufacturer's symbol	Processor	Flash [GB]	RAM [GB]
UPS-P4-A10-08128	UPS-APLP4-A20-08128	Intel® Pentium® N4200	128	8
UPS-P4-A10-0864	UPS-APLP4-A20-0864	Intel® Pentium® N4200	64	8
UPS-X5F-A20-0432	UPS-APLX5F-A20-0432	Intel® Atom x5 E3940	32	4
UPS-X7F-A20-0464	UPS-APLX7F-A20-0464	Intel® Atom x5 E3950	64	4
UPS-X7F-A20-0864	UPS-APLX7F-A20-0864	Intel® Atom x5 E3950	64	8

UP2PRO single board computers made by AAEON



Manufacturer : AAEON  
 Kit : Single-board computer  
 Architecture : x86  
 Interface : Ethernet x2; HDMI; RS232 x2; RS422; RS485; SATA; SIM; UART x2  
 Information : product is delivered without operating system installed  
 Operating system support : Linux, Ubuntu, Windows® 10, Yocto Linux

Symbol	Manufacturer's symbol	Processor	RAM [GB]	Flash [GB]
UPN-APLC2F-A100232	UPN-APLC2F-A10-0232	Intel® Celeron® N3350	2	32
UPN-APLC2F-A100432	UPN-APLC2F-A10-0432	Intel® Celeron® N3350	4	32
UPN-APLP4F-A100432	UPN-APLP4F-A10-0432	Intel® Pentium® N4200	4	32
UPN-APLP4F-A100864	UPN-APLP4F-A10-0864	Intel® Pentium® N4200	8	64
UPN-APLX7F-A100464	UPN-APLX7F-A10-0464	Intel® Atom x7 E3950	4	64

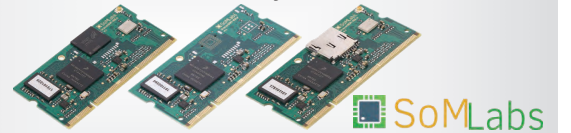
UP Squared 6000 single board computers made by AAEON



Manufacturer : AAEON  
 Kit : Single-board computer  
 Architecture : x86  
 GPU : Intel® UHD Graphics  
 Information : product is delivered without operating system installed  
 Operating system support : Linux, Ubuntu, Windows® 10, Yocto Linux

Symbol	Manufacturer's symbol	Processor	Flash [GB]	RAM [GB]
UPN-LCN2-A10-0232	UPN-EHLCN2-A10-0232	Intel® Celeron® N6210	32	2
UPN-LPJ4-A10-0432	UPN-EHLPJ4-A10-0432	Intel® Pentium® J6426	32	4
UPN-LX4E-A10-0432	UPN-EHLX4E-A10-0432	Intel® Atom X6413E	32	4
UPN-LX4RE-A10-0864	UPN-EHLX4RE-A10-0864	Intel® Atom X6425RE	64	8

VisionSOM-6UL modules made by SOMLABS



Manufacturer : SOMLABS  
 Type of module : SOM  
 Family : VisionSOM-6ULL  
 Architecture : Cortex A7  
 Processor : i.MX6ULL  
 Operating frequency : 792MHz  
 Features : 2D Accelerator  
**Symbol : Y2792Cxxx0SF**  
 Interface : 24bit RGB; CAN x2; Ethernet x2; I2C x4; I2S x3; SPDIF; SPI x4; UART x8; USB OTG x2  
**Symbol : Y2792Cxxx1WB**  
 Interface : 24bit RGB; CAN x2; Ethernet x2; I2C x4; I2S x3; SPDIF; SPI x4; UART x8; USB OTG x2; WiFi

Symbol	Manufacturer's symbol	Memory	RAM [MB]	Flash [B]
Y2792C256R256N0SF	SLS16Y2_792C_256R_256N_0SF_I	DDR3L, NAND Flash	256	256M
Y2792C256R256N1WB	SLS16Y2_792C_256R_256N_1WB_E	DDR3L, NAND Flash	256	256M
Y2792C512R512N0SF	SLS16Y2_792C_512R_512N_0SF_I	DDR3L, NAND Flash	512	512M
Y2792C512R512N1WB	SLS16Y2_792C_512R_512N_1WB_E	DDR3L, NAND Flash	512	512M
Y2792C512R04GE0SF	SLS16Y2_792C_512R_04GE_0SF_E	DDR3L, eMMC	512	4G
Y2792C512R04GE1WB	SLS16Y2_792C_512R_04GE_1WB_E	DDR3L, eMMC	512	4G
Y2792C512RSD0SF	SLS16Y2_792C_512R_SD_0SF_C	DDR3L	512	-

cont. on the next page

VisionSOM-6UL modules made by SOMLABS (cont.)

Symbol	Manufacturer's symbol	Memory	RAM [MB]	Flash [B]
Y2792C512RSD1WB	SLS16Y2_792C_512R_SD_1WB_C_B	DDR3L	512	-

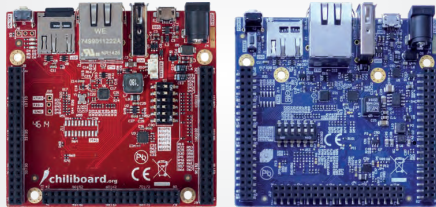
Carrier Board for SoM modules made by SOMLABS



Manufacturer : SOMLABS  
Development kit : ARM NXP

Symbol	Manufacturer's symbol
VISIONCB-STD	VISIONCB-6ULL-STD V.2.0
VISIONCB-IND-HDMI	VISIONCB-6ULL-IND-HDMI V.1.0
VISIONCB-6ULL-IND	VISIONCB-6ULL-IND V.1.0
VISIONCB-STM32MP1	VISIONCB-STM32MP1-STD V.1.1
VISIONDK-6ULL-2.0	VISIONDK-6ULL V.2.0
VISIONDK-RT	VISIONDK-RT
VISIONSTK-6ULL-2.0	VISIONSTK-6ULL V.2.0
VISIONDK-32MP1-1.0	VISIONDK-STM32MP1 V.2.0
VISIONSTK32MP1-1.0	VISIONSTK-STM32MP1 V.1.0
VISIONCB-8MM-STD	VISIONCB-8M-STD V.1.0
VISIONDK-8MM	VISIONDK-8MMINI V.1.0
VISIONSTK-8MM	VISIONSTK-8MMINI V.1.0
VISIONSTK-USD-TR01	VISIONSTK-USD-TR01
VISIONCB-RT-STD	VISIONCB-RT-STD V.1.0
VISIONSTK-RT	VISIONSTK-RT V.1.0
VISIONSTK-8M-TR01	VISIONSTK-8M-TR01
Symbol	Interface
VISIONCB-STD	Ethernet; UART; USB
VISIONCB-IND-HDMI	Ethernet; UART; USB
VISIONCB-6ULL-IND	Ethernet; UART; USB
VISIONCB-STM32MP1	Ethernet; MIPI; RGB; SD / microSD; USB Host; USB OTG
VISIONCB-8MM-STD	Ethernet; MIPI; RGB; SD / microSD; USB Host; USB OTG
VISIONSTK-USD-TR01	Ethernet; UART; USB
VISIONCB-RT-STD	Ethernet; FlexCAN; I2C; SPI; UART; USB
VISIONSTK-RT	Ethernet; FlexCAN; I2C; SPI; UART; USB
VISIONSTK-8M-TR01	CSI; Ethernet; JTAG; MIPI; PCIe; USB device; USB Host

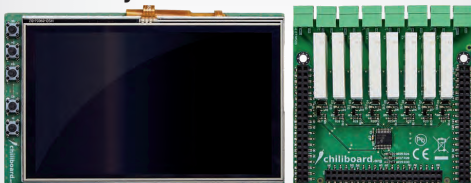
Single board computers made by GRINN



Manufacturer : GRINN  
Kit : Single-board computer  
Information : product is delivered without operating system installed

Symbol	Processor	Freq. [Hz]	Memory	RAM [MB]
CHILIBOARD	AM3352	600M	DDR3	128
CHILIBOARD-PRO	AM3358	1G	DDR3	512
Symbol	CHILIBOARD	CHILIBOARD-PRO	Features	
- 3D Accelerator			x	
- socket for microSD cards	x	x		
- 256Mb Flash memory	x	x		
- integrated programmer/debugger	x	x		
Operating system support				
- Linux	x	x		

Accessories for single board computers made by GRINN



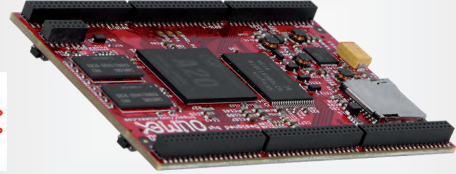
Manufacturer : GRINN  
Accessories : expansion board  
Related items : CHILIBOARD, LITEBOARD-IND  
Kit contents:

— prototype board (CHILI-EXT-M2M, CHILI-EXT-RELAY)

— TFT display (CHILI-EXT-LCD)

Symbol	CHILI-EXT-M2M	CHILI-EXT-RELAY	CHILI-EXT-LCD
Components			
- LE910-EUG	x		
- MCP23008		x	x
- RM699BV-3011-85-1005		x	
- RVT50AQTNRW00			x
- TLV320AIC3204			x
Symbol	Display	Resolution	Features
CHILI-EXT-LCD	TFT 5"	800x480px	resistive touch panel

OLIMEX System on Modules



Manufacturer : OLIMEX

Symbol	Architecture	Processor	Memory	RAM [B]
A20-SOM	Cortex A7	ARM A20 Dual-Core	DDR3	1G
A20-SOM-N8GB	Cortex A7	ARM A20 Dual-Core	DDR3	1G
A13-SOM-512	Cortex A8	ARM A13	DDR3	512M
A13-SOM-256	Cortex A8	ARM A13	DDR3	256M
A20-SOM204-1G	Cortex A7	ARM A20 Dual-Core	DDR3	1G
A20-204-1G16M16GMC	Cortex A7	ARM A20 Dual-Core	DDR3, eMMC	1G
RK3188-SOM	Cortex A9	RK3188 Quad Core	DDR3	1G
RK3188-SOM-4GB	Cortex A9	RK3188 Quad Core	DDR3, NAND Flash	1G
AM3352-SOM	Cortex A8	AM3352	DDR3	512M
AM3352-SOM512MIND	Cortex A8	AM3352	DDR3, NAND Flash	512M
AM3359-SOM-IND	Cortex A8	AM3359	DDR3	512M
AM3359-SOM512MIND	Cortex A8	AM3359	DDR3, NAND Flash	512M
A20-SOM-E16GS16M	Cortex A7	ARM A20 Dual-Core	DDR3	1G
A20-SOM204-1G-M	Cortex A7	ARM A20 Dual-Core	DDR3	1G
T2-204-1G16M4GCI	Cortex A7	ARM A20 Dual-Core	DDR3	1G
T2-204-1G16M8GMC	Cortex A7	ARM A20 Dual-Core	DDR3	1G
T2-SOM-E8GS16M-IND	Cortex A7	ARM A20 Dual-Core	DDR3	1G
T2-SOM-IND	Cortex A7	ARM A20 Dual-Core	DDR3	1G
T2-SOM204-1G-I	Cortex A7	ARM A20 Dual-Core	DDR3	1G
AM3352-SOM-IND	Cortex A8	AM3352	DDR3	512M

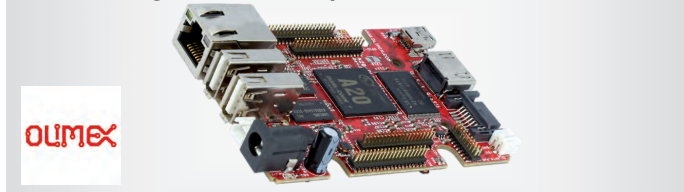
MICROCHIP TECHNOLOGIES SOM modules



Manufacturer : MICROCHIP TECHNOLOGY  
Type of module : SOM  
Kind of memory : DDR2  
Kind of connector : solder pads

Symbol	Architecture	Processor	RAM [B]	I/O
ATSAMA5D27-SOM1	Cortex A5	ATSAMA5D27C-D1G	128M	103
ATSAMA5D27-WLSOM1	Cortex A5	ATSAMA5D27C-LD2G	2G	94
SAM9X60D1G-I/LZB	ARM926	SAM9X60D1G-I/F4B	128M	85

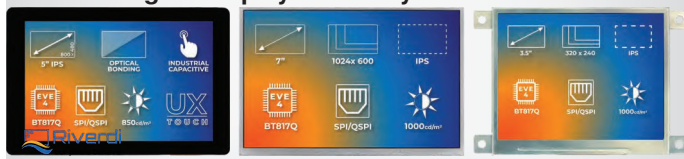
OLIMEX Single Board Computers



Manufacturer : OLIMEX

Symbol	Manufacturer's symbol	Architecture	Processor	Graphic unit	Kind of memory	RAM capacity [B]	Flash memory capacity [B]
A20-LIME2-N8GB	A20-OLINUXINO-LIME2-N8GB	Cortex A7	ARM A20 Dual-Core	ARM Mali-400GPU	DDR3, NAND Flash	1G	8G
A20-OLX-LIME	A20-OLINUXINO-LIME	Cortex A7	ARM A20 Dual-Core	ARM Mali-400GPU	DDR3	512M	-
A20-OLX-MICRO	A20-OLINUXINO-MICRO	Cortex A7	ARM A20 Dual-Core	ARM Mali-400GPU	DDR3	1G	-
A20-OLX-MICRO-4GB	A20-OLINUXINO-MICRO-4GB	Cortex A7	ARM A20 Dual-Core	ARM Mali-400GPU	DDR3	1G	4G
A20-SOM-EVB	A20-SOM-EVB	Cortex A7	ARM A20 Dual-Core	ARM Mali-400GPU	DDR3	1G	4G
A20-OLX-LIME2	A20-OLINUXINO-LIME2	Cortex A7	ARM A20 Dual-Core	ARM Mali-400GPU	DDR3	1G	-
A10-OLX-LIME	A10-OLINUXINO-LIME	Cortex A8	ARM A10	ARM Mali-400GPU	DDR3	512M	-
A10-LIME-N8GB	A10-OLINUXINO-LIME-N8GB	Cortex A8	ARM A10	ARM Mali-400GPU	DDR3, NAND Flash	512M	8G
A13-OLX-MICRO	A13-OLINUXINO-MICRO	Cortex A8	ARM A13	ARM Mali-400GPU	DDR3	256M	-
A13-OLX-WIFI	A13-OLINUXINO-WIFI	Cortex A8	ARM A13	ARM Mali-400GPU	DDR3	512M	4G
IMX233-OLX-MAXI	IMX233-OLINUXINO-MAXI	ARM926	iMX233	-	DDR1	64M	-
IMX233-MAXI-I	IMX233-OLINUXINO-MAXI-I	ARM926	iMX233	-	DDR1	64M	-
IMX233-OLX-MINI	IMX233-OLINUXINO-MINI	ARM926	iMX233	-	DDR1	64M	-
IMX233-MINI-WIFI	IMX233-OLINUXINO-MINI-WIFI	ARM926	iMX233	-	DDR1	64M	-
RT5350F-OLX-EVB	RT5350F-OLINUXINO-EVB	MIPS24KEc	RT5350F	-	SDRAM	32M	8M
RT5350F-OLINUXINO	RT5350F-OLINUXINO	MIPS24KEc	RT5350F	-	SDRAM	32M	8M
A33-OLINUXINO	A33-OLINUXINO	Cortex A7	Allwinner A33 Quad-Core	ARM Mali-400GPU	DDR3	1G	-
A33-OLINUXINO-4GB	A33-OLINUXINO-4GB	Cortex A7	Allwinner A33 Quad-Core	ARM Mali-400GPU	DDR3, NAND Flash	1G	4G
A64-1G	A64-OLINUXINO-1G	Cortex A53	Allwinner A64 Quad-Core	-	DDR3L	1G	-
A64-1G4GW	A64-OLINUXINO-1GE4GW	Cortex A53	Allwinner A64 Quad-Core	-	DDR3L, eMMC	1G	4G
A64-1GS16M	A64-OLINUXINO-1GS16M	Cortex A53	Allwinner A64 Quad-Core	-	DDR3L, eMMC	1G	16M
A64-2GE8G-IND	A64-OLINUXINO-2GE8G-IND	Cortex A53	Allwinner A64 Quad-Core	-	DDR3L, eMMC	2G	8G
A20-LIME2-E16GS16	A20-OLINUXINO-LIME2-E16GS16M	Cortex A7	ARM A20 Dual-Core	ARM Mali-400GPU	DDR3, eMMC	1G	16G
A20-LIME2-E4GS16	A20-OLINUXINO-LIME2-E4GS16M	Cortex A7	ARM A20 Dual-Core	ARM Mali-400GPU	DDR3, eMMC	1G	4G
A20-LIME2-S16	A20-OLINUXINO-LIME2-S16M	Cortex A7	ARM A20 Dual-Core	ARM Mali-400GPU	DDR3	1G	-
A20-LIME-E16GS16	A20-OLINUXINO-LIME-E16GS16M	Cortex A7	ARM A20 Dual-Core	ARM Mali-400GPU	DDR3, eMMC	512M	16G
A20-LIME-E4GS16	A20-OLINUXINO-LIME-E4GS16M	Cortex A7	ARM A20 Dual-Core	ARM Mali-400GPU	DDR3, eMMC	512M	4G
A20-LIME-N8G	A20-OLINUXINO-LIME-N8G	Cortex A7	ARM A20 Dual-Core	ARM Mali-400GPU	DDR3, NAND Flash	512M	8G
A20-LIME-S16	A20-OLINUXINO-LIME-S16M	Cortex A7	ARM A20 Dual-Core	ARM Mali-400GPU	DDR3	512M	-
A20-MICRO-E16GS16	A20-OLINUXINO-MICRO-E16GS16M	Cortex A7	ARM A20 Dual-Core	ARM Mali-400GPU	DDR3, eMMC	1G	16G
A20-MICRO-E4GS16	A20-OLINUXINO-MICRO-E4GS16M	Cortex A7	ARM A20 Dual-Core	ARM Mali-400GPU	DDR3, eMMC	1G	4G
A20-MICRO-N8G	A20-OLINUXINO-MICRO-N8G	Cortex A7	ARM A20 Dual-Core	ARM Mali-400GPU	DDR3, NAND Flash	1G	8G
A20-MICRO-S16	A20-OLINUXINO-MICRO-S16M	Cortex A7	ARM A20 Dual-Core	ARM Mali-400GPU	DDR3	1G	-
T2-LIME2-E8GS16-I	T2-OLINUXINO-LIME2-E8GS16M-IND	Cortex A7	ARM A20 Dual-Core	ARM Mali-400GPU	DDR3, eMMC	1G	8G
T2-LIME2-S16-I	T2-OLINUXINO-LIME2-S16M-IND	Cortex A7	ARM A20 Dual-Core	ARM Mali-400GPU	DDR3	1G	-
T2-LIME-E4GS16M-I	T2-OLINUXINO-LIME-E4GS16M-IND	Cortex A7	ARM A20 Dual-Core	ARM Mali-400GPU	DDR3, eMMC	512M	4G
T2-LIME-S16M-I	T2-OLINUXINO-LIME-S16M-IND	Cortex A7	ARM A20 Dual-Core	ARM Mali-400GPU	DDR3	512M	-
T2-MICRO-E8GS16-I	T2-OLINUXINO-MICRO-E8GS16M-IND	Cortex A7	ARM A20 Dual-Core	ARM Mali-400GPU	DDR3, eMMC	1G	8G
T2-MICRO-S16-I	T2-OLINUXINO-MICRO-S16M-IND	Cortex A7	ARM A20 Dual-Core	ARM Mali-400GPU	DDR3	1G	-
T2-OLX-LIME2-I	T2-OLINUXINO-LIME2-IND	Cortex A7	ARM A20 Dual-Core	ARM Mali-400GPU	DDR3	1G	-
T2-OLX-LIME-I	T2-OLINUXINO-LIME-IND	Cortex A7	ARM A20 Dual-Core	ARM Mali-400GPU	DDR3	512M	-
T2-OLX-MICRO-I	T2-OLINUXINO-MICRO-IND	Cortex A7	ARM A20 Dual-Core	ARM Mali-400GPU	DDR3	1G	-
A20-SOM-EVB-8GB	A20-SOM-EVB-8GB	Cortex A7	ARM A20 Dual-Core	ARM Mali-400GPU	DDR3	1G	8G
A33-OLINUXINO-N8G	A33-OLINUXINO-N8G	Cortex A7	Allwinner A33 Quad-Core	ARM Mali-400GPU	DDR3	1G	8G
A64-1GE16GW	A64-OLINUXINO-1GE16GW	Cortex A53	Allwinner A64 Quad-Core	-	DDR3L, eMMC	1G	16G

EVE4 intelligent displays made by RIVERDI



Manufacturer : Riverdi

Type of display : TFT

Kind of display : graphical

No. of colours : 16.7M

U<sub>sup</sub> : 3...3.6V DC

Controller : BT817Q

Interface : QSPI; SPI

Features:

- anti-glare glass
- capacitive touch panel (RVT35HHBFWCA0, RVT35HHBNWCxxx, RVT43HLBFWCA0, RVT43HLBNWCxxx, RVT50HQBFWCA0, RVT50HQBWNWCxxx, RVT70HSBFWCA0, RVT70HSBNWCxxx, RVT101HVBFWCA0, RVT101HVBWNWCxxx)
- IPS panel
- optical bonding (RVTxxxBNWC00-B)
- mounting frame (RVT35HHBFWCA0, RVT43HLBFWCA0, RVT50HQBFWCA0, RVT70HSBFWCA0)

Symbol	Screen size ["]	Resolution	Luminosity [cd/m <sup>2</sup> ]
RVT35HHBFWCA0	3.5	320x240	800
RVT35HHBFWN00	3.5	320x240	1000
RVT35HHBNWC00	3.5	320x240	800
RVT35HHBNWC00-B	3.5	320x240	850
RVT35HHBNWCA0	3.5	320x240	800

Symbol	Screen size ["]	Resolution	Luminosity [cd/m <sup>2</sup> ]
RVT35HHBNWN00	3.5	320x240	1000
RVT43HLBFWCA0	4.3	480x272	800
RVT43HLBFWN00	4.3	480x272	1000
RVT43HLBNWC00	4.3	480x272	800
RVT43HLBNWC00-B	4.3	480x272	850
RVT43HLBNWCA0	4.3	480x272	800
RVT43HLBNWN00	4.3	480x272	1000
RVT50HQBFWCA0	5	800x480	800
RVT50HQBFWN00	5	800x480	1000
RVT50HQBWNWC00	5	800x480	800
RVT50HQBWNWC00-B	5	800x480	850
RVT50HQBWNWCA0	5	800x480	800
RVT50HQBWNWN00	5	800x480	1000
RVT70HSBFWCA0	7	1024x600	800
RVT70HSBFWN00	7	1024x600	1000
RVT70HSBNWC00	7	1024x600	800
RVT70HSBNWC00-B	7	1024x600	850
RVT70HSBNWCA0	7	1024x600	800
RVT70HSBNWN00	7	1024x600	1000
RVT101HVBFWCA0	10.1	1280x800	800
RVT101HVBFWN00	10.1	1280x800	1000
RVT101HVBWNWC00	10.1	1280x800	800
RVT101HVBWNWC00-B	10.1	1280x800	850
RVT101HVBWNWCA0	10.1	1280x800	800
RVT101HVBWNWN00	10.1	1280x800	1000

**RIVERDI's intelligent displays with STM32 controllers**



Manufacturer : Riverdi  
 Manufacturer series : STM32 Embedded Displays  
 Type of display : TFT  
 Kind of display : graphical  
 No. of colours : 16.7M  
 U<sub>sup</sub> : 6...36V DC  
 Contrast : 1000:1  
 Controller : STM32H747XIH6  
 Interface : ADC; CAN; DAC; I2C; PWM; RiBUS; RS232; RS485; SPI; UART; USB

- Features:
- air bonding (RVT70HSSFWCA0, RVT70HSSNWC00, RVT70HSSNWCA0, RVT101HVSFWCA0, RVT101HVSNNWC00, RVT101HVSNNWCA0)
  - capacitive touch panel (RVT70HSSFWCA0, RVT70HSSNWCxxx, RVT101HVSFWCA0, RVT101HVSNNWCxxx)
  - IPS panel
  - optical bonding (RVT70HSSNWC00-B, RVT101HVSNNWC00-B)
  - mounting frame (RVT70HSSFWCA0, RVT70HSSFWN00, RVT101HVSFWCA0, RVT101HVSFWN00)
  - external frame (RVT70HSSNWC00, RVT70HSSNWC00-B, RVT101HVSNNWC00, RVT101HVSNNWC00-B)

Symbol	Screen size ["]	Resolution	Luminosity [cd/m <sup>2</sup> ]
RVT70HSSFWCA0	7	1024x600	800
RVT70HSSFWN00	7	1024x600	1000
RVT70HSSNWC00	7	1024x600	800
RVT70HSSNWC00-B	7	1024x600	850
RVT70HSSNWCA0	7	1024x600	800
RVT70HSSNWN00	7	1024x600	1000
RVT101HVSFWCA0	10.1	1280x800	800
RVT101HVSFWN00	10.1	1280x800	1000
RVT101HVSNNWC00	10.1	1280x800	1000
RVT101HVSNNWC00-B	10.1	1280x800	800
RVT101HVSNNWCA0	10.1	1280x800	850
RVT101HVSNNWN00	10.1	1280x800	1000

**Mikromedia intelligent displays made by MIKROE**



Manufacturer : MIKROE  
 Type of display : TFT  
 Kind of display : graphical

Symbol	Manufacturer's symbol	Screen size ["]	Resolution	Microcontroller	Display features
MIKROE-606	MIKROMEDIA FOR DSPIC33	2.8	240x320	dsPIC33FJ256GP710A	resistive touch panel
MIKROE-1159	MIKROMEDIA FOR DSPIC33EP	2.8	240x320	dsPIC33EP512MU810	resistive touch panel
MIKROE-607	MIKROMEDIA FOR PIC18FJ	2.8	240x320	PIC18F87J50	resistive touch panel
MIKROE-2588	MIKROMEDIA FOR PIC18FK	2.8	240x320	PIC18F25K50	resistive touch panel
MIKROE-608	MIKROMEDIA FOR PIC24	2.8	240x320	PIC24FJ256GB110	resistive touch panel
MIKROE-597	MIKROMEDIA FOR PIC32	2.8	240x320	PIC32MX460F512L	resistive touch panel
MIKROE-1448	MIKROMEDIA FOR PSOC5LP	2.8	240x320	CY8C5868AXI-LP035	resistive touch panel
MIKROE-974	MIKROMEDIA FOR STELLARIS M3	2.8	240x320	PIC32MX460F512L	resistive touch panel
MIKROE-2275	MIKROMEDIA HMI 3.5	3.5	240x320	FT900Q	capacitive touch panel
MIKROE-2277	MIKROMEDIA HMI 3.5 CAP	3.5	240x320	FT900Q	capacitive touch panel
MIKROE-2276	MIKROMEDIA HMI 3.5 RES	3.5	240x320	FT900Q	resistive touch panel
MIKROE-4984	MIKROMEDIA 4 FOR PIC32MZ CAPACITIVE FPI	4.3	480x272	PIC32MZ2048EFH144	capacitive touch panel
MIKROE-4315	MIKROMEDIA 4 FOR STM32F2 CAP. FPI FRAME	4.3	480x272	STM32F207VGT6	capacitive touch panel
MIKROE-2278	MIKROMEDIA HMI 4.3	4.3	480x272	FT900Q	haptic feedback
MIKROE-2280	MIKROMEDIA HMI 4.3 CAP	4.3	480x272	FT900Q	capacitive touch panel; haptic feedback
MIKROE-2279	MIKROMEDIA HMI 4.3 RES	4.3	480x272	FT900Q	resistive touch panel; haptic feedback
MIKROE-2281	MIKROMEDIA HMI 4.3 UXB	4.3	480x272	FT900Q	capacitive touch panel; haptic feedback
MIKROE-2282	MIKROMEDIA HMI 4.3 UXW	4.3	480x272	FT900Q	capacitive touch panel; haptic feedback
MIKROE-2385	MIKROMEDIA PLUS FOR FT90X	4.3	480x272	FT900	resistive touch panel
MIKROE-1399	MIKROMEDIA PLUS FOR PIC32MX7	4.3	480x272	PIC32MX795F512L	resistive touch panel
MIKROE-1397	MIKROMEDIA PLUS FOR STM32	4.3	480x272	STM32F407ZGT6	resistive touch panel
MIKROE-2085	MIKROMEDIA PLUS FOR STM32F7	4.3	480x272	STM32F746ZG	resistive touch panel
MIKROE-2660	MIKROMEDIA PLUS FOR TIVA	4.3	480x272	TM4C123GH6PGEI	resistive touch panel
MIKROE-4317	MIKROMEDIA 5 FOR STM32F7 CAP. FPI BEZEL	5	840x480	STM32F746ZGT6	capacitive touch panel
MIKROE-4318	MIKROMEDIA 5 FOR STM32F7 CAP. FPI FRAME	5	800x480	STM32F746ZGT6	capacitive touch panel
MIKROE-2283	MIKROMEDIA HMI 5	5	840x480	FT900Q	haptic feedback
MIKROE-2285	MIKROMEDIA HMI 5 CAP	5	840x480	FT900Q	capacitive touch panel; haptic feedback
MIKROE-2284	MIKROMEDIA HMI 5 RES	5	840x480	FT900Q	resistive touch panel; haptic feedback
MIKROE-2286	MIKROMEDIA HMI 5 UXB	5	840x480	FT900Q	capacitive touch panel; haptic feedback

cont. on the next page

Mikromedia intelligent displays made by MIKROE (cont.)

Symbol	Manufacturer's symbol	Screen size ["]	Resolution	Microcontroller	Display features
MIKROE-2287	MIKROMEDIA HMI 5 UXW	5	840x480	FT900Q	capacitive touch panel; haptic feedback
MIKROE-1841	MIKROMEDIA 7 FOR STM32F4	7	800x480	STM32F407ZGT6	resistive touch panel
MIKROE-2438	MIKROMEDIA 7 FOR STM32F7	7	800x480	STM32F746ZG	resistive touch panel
MIKROE-2288	MIKROMEDIA HMI 7	7	840x480	FT900Q	haptic feedback
MIKROE-2289	MIKROMEDIA HMI 7 RES	7	840x480	FT900Q	haptic feedback
MIKROE-2291	MIKROMEDIA HMI 7 UXB	7	840x480	FT900Q	capacitive touch panel; haptic feedback
MIKROE-2292	MIKROMEDIA HMI 7 UXW	7	840x480	FT900Q	capacitive touch panel; haptic feedback

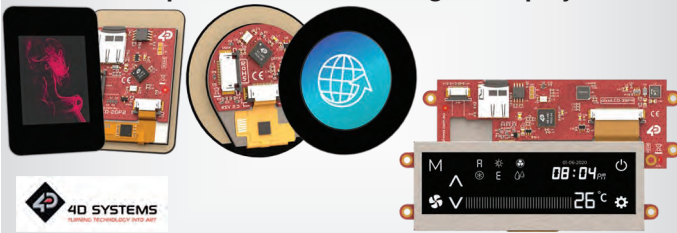
4D SYSTEMS gen4-HMI series intelligent displays



Manufacturer : 4D Systems  
 Type of display : TFT  
 Kind of display : graphical  
 No. of colours : 65k  
 U<sub>sup</sub> : 5V DC  
 Interface : GPIO; I2C x3; serial; SPI x3

Symbol	Screen size ["]	Resolution	Luminosity [cd/m <sup>2</sup> ]	Microcontroller
GEN4-ULCD-24D	2.4	240x320	228	DIABLO16
GEN4-ULCD-24D-CLB	2.4	240x320	221	DIABLO16
GEN4-ULCD-24DT	2.4	240x320	300	DIABLO16
GEN4-ULCD-24PT	2.4	240x320	304	PICASO
GEN4-ULCD-28D	2.8	240x320	175	DIABLO16
GEN4-ULCD-28D-CLB	2.8	240x320	170	DIABLO16
GEN4-ULCD-28DT	2.8	240x320	220	DIABLO16
GEN4-ULCD-28PT	2.8	240x320	220	PICASO
GEN4-ULCD-32D	3.2	240x320	200	DIABLO16
GEN4-ULCD-32D-CLB	3.2	240x320	194	DIABLO16
GEN4-ULCD-32DT	3.2	240x320	257	DIABLO16
GEN4-ULCD-32PT	3.2	240x320	257	PICASO
GEN4-ULCD-35D	3.5	320x480	228	DIABLO16
GEN4-ULCD-35D-CLB	3.5	320x480	221	DIABLO16
GEN4-ULCD-35DCTCLB	3.5	320x480	216	DIABLO16
GEN4-ULCD-35DT	3.5	320x480	228	DIABLO16
GEN4-ULCD-43D	4.3	480x272	460	DIABLO16
GEN4-ULCD-43D-CLB	4.3	480x272	485	DIABLO16
GEN4-ULCD-50D	5	800x480	460	DIABLO16
GEN4-ULCD-50D-CLB	5	800x480	485	DIABLO16
GEN4-ULCD-50DCTCLB	5	800x480	475	DIABLO16
GEN4-ULCD-50DT	5	800x480	460	DIABLO16
GEN4-ULCD-70D	7	800x480	455	DIABLO16
GEN4-ULCD-70D-CLB	7	800x480	485	DIABLO16
GEN4-ULCD-70DT	7	800x480	455	DIABLO16

4D SYSTEMS pixxiLCD series intelligent displays



Manufacturer : 4D Systems  
 Type of display : TFT  
 Kind of display : graphical  
 No. of colours : 65k  
 U<sub>sup</sub> : 5V  
 Interface : GPIO; I2C - Master  
 Features (PIXXILCD-xxx-C, SK-PIXXILCD-xxx-C):  
 — capacitive touch panel

Symbol	Screen size ["]	Resolution	Luminosity [cd/m <sup>2</sup> ]	Microcontroller
PIXXILCD-13P2	1.3	240x240	300	PIXXI-28
PIXXILCD-13P2-CC	1.3	240x240	270	PIXXI-28
PIXXILCD-20P2	2	176x220	500	PIXXI-28
PIXXILCD-20P2-CC	2	176x220	460	PIXXI-28
PIXXILCD-25P4	2.5	240x240	300	PIXXI-44
PIXXILCD-25P4-C	2.5	240x240	280	PIXXI-44
PIXXILCD-39P4	3.9	480x128	500	PIXXI-44
PIXXILCD-39P4-C	3.9	480x128	475	PIXXI-44
SK-PIXXILCD-13P2	1.3	240x240	300	PIXXI-28
SK-PIXXILCD-13P2-C	1.3	240x240	270	PIXXI-28
SK-PIXXILCD-20P2	2	176x220	500	PIXXI-28

Symbol	Screen size ["]	Resolution	Luminosity [cd/m <sup>2</sup> ]	Microcontroller
SK-PIXXILCD-20P2-C	2	176x220	460	PIXXI-28
SK-PIXXILCD-25P4	2.5	240x240	300	PIXXI-44
SK-PIXXILCD-25P4-C	2.5	240x240	280	PIXXI-44
SK-PIXXILCD-39P4	3.9	480x128	500	PIXXI-44
SK-PIXXILCD-39P4-C	3.9	480x128	475	PIXXI-44

4D SYSTEMS gen4 TFT dispays for Arduino



Manufacturer : 4D Systems  
 Type of display : TFT  
 Kind of display : graphical  
 No. of colours : 65k  
 Supply voltage : 5V DC  
 Interface : 1-wire; 8bit parallel; GPIO; I2C; serial; SPI

Symbol : GEN4-ULCD-xxPT-AR

Features : microSD card reader;  
 resistive touch panel

Symbol : GEN4-ULCD-xxDT-AR

Features : CRC;  
 microSD card reader;  
 resistive touch panel;  
 NeoPixel;  
 quadrature input;  
 pulse output;  
 PWM output

Symbol : GEN4-ULCD-32DCT-AR

Features : CRC;  
 microSD card reader;  
 capacitive touch panel;  
 NeoPixel;  
 external frame;  
 SPI Flash;  
 quadrature input;  
 pulse output;  
 PWM output

Symbol : GEN4-ULCD-43D-AR, GEN4-ULCD-70D-AR

Features : CRC;  
 microSD card reader;  
 NeoPixel;  
 SPI Flash;  
 quadrature input;  
 pulse output;  
 PWM output

Symbol : GEN4-ULCD-43DCT-AR

Features : CRC;  
 microSD card reader;  
 capacitive touch panel;  
 NeoPixel;  
 SPI Flash;  
 quadrature input;  
 pulse output;  
 PWM output

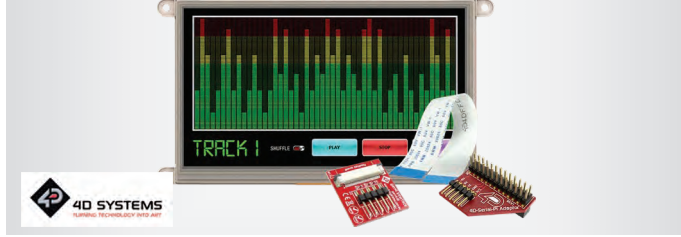
Symbol	Screen size ["]	Resolution	Luminosity [cd/m <sup>2</sup> ]	Microcontroller
GEN4-ULCD-24PT-AR	2.4	240x320	304	PICASO
GEN4-ULCD-28DT-AR	2.8	240x320	220	DIABLO16
GEN4-ULCD-28PT-AR	2.8	240x320	220	PICASO
GEN4-ULCD-32DCT-AR	3.2	240x320	304	DIABLO16
GEN4-ULCD-32PT-AR	3.2	240x320	257	PICASO
GEN4-ULCD-35DT-AR	3.5	320x480	228	DIABLO16
GEN4-ULCD-43D-AR	4.3	480x272	460	DIABLO16
GEN4-ULCD-43DCT-AR	4.3	480x272	450	DIABLO16
GEN4-ULCD-43DT-AR	4.3	480x272	460	DIABLO16
GEN4-ULCD-50DT-AR	5	800x480	460	DIABLO16

cont. on the next page

4D SYSTEMS gen4 TFT displays for Arduino (cont.)

Symbol	Screen size ["]	Resolution	Luminosity [cd/m <sup>2</sup> ]	Microcontroller
GEN4-ULCD-70D-AR	7	800x480	455	DIABLO16
GEN4-ULCD-70DT-AR	7	800x480	455	DIABLO16

4D SYSTEMS gen4 TFT displays for Raspberry Pi



Manufacturer : 4D Systems  
 Type of display : TFT  
 Display : graphical  
**Symbol : GEN4-ULCD-xxDT-PI**  
 Features : CRC;  
 microSD card reader;  
 resistive touch panel;  
 NeoPixel;  
 quadrature input;  
 pulse output;  
 PWM output

**Symbol : GEN4-ULCD-24PT-PI**  
 Features : microSD card reader;  
 resistive touch panel

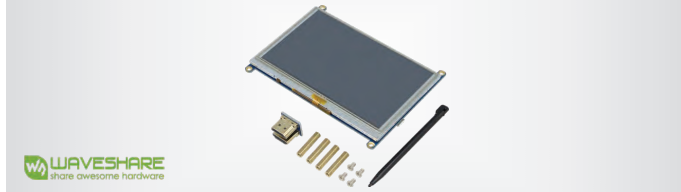
**Symbol : GEN4-ULCD-xxD-PI**  
 Features : CRC;  
 microSD card reader;  
 NeoPixel;  
 SPI Flash;  
 quadrature input;  
 pulse output;  
 PWM output

**Symbol : GEN4-ULCD-43DCT-PI**  
 Features : CRC;  
 microSD card reader;  
 capacitive touch panel;  
 NeoPixel;  
 SPI Flash;  
 quadrature input;  
 pulse output;  
 PWM output

Interface : 1-wire; 8bit parallel; GPIO; I2C x3; serial; SPI x3

Symbol	Screen size ["]	Resolution	Luminosity [cd/m <sup>2</sup> ]	Microcontroller
GEN4-ULCD-24DT-PI	2.4	240x320	300	DIABLO16
GEN4-ULCD-24PT-PI	2.4	240x320	304	PICASO
GEN4-ULCD-43D-PI	4.3	480x272	460	DIABLO16
GEN4-ULCD-43DCT-PI	4.3	480x272	450	DIABLO16
GEN4-ULCD-43DT-PI	4.3	480x272	460	DIABLO16
GEN4-ULCD-50D-PI	5	800x480	460	DIABLO16
GEN4-ULCD-50DT-PI	5	800x480	460	DIABLO16
GEN4-ULCD-70D-PI	7	800x480	455	DIABLO16
GEN4-ULCD-70DT-PI	7	800x480	455	DIABLO16

WAVESHARE TFT displays designated for Raspberry Pi



Manufacturer : WAVESHARE  
 Type of display : TFT  
 Kind of display : graphical  
 Features:  
 — capacitive touch panel (WSH-14300, WSH-10829, WSH-11199)  
 — resistive touch panel (WSH-12xxx, WSH-10207, WSH-10563, WSH-10737, WSH-11870, WSH-9201, WSH-9904)

Symbol	Screen size ["]	Resolution	Interface
WSH-12219	2.8	320x240	SPI
WSH-9201	3.2	320x240	SPI
WSH-12287	3.5	320x480	SPI
WSH-12824	3.5	480x320	HDMI
WSH-9904	3.5	320x480	SPI
WSH-10207	4	320x480	SPI

Symbol	Screen size ["]	Resolution	Interface
WSH-12030	4	800x480	HDMI
WSH-10563	5	800x480	HDMI
WSH-10737	5	800x480	HDMI
WSH-14300	5	800x480	HDMI; VGA
WSH-10829	7	800x480	HDMI
WSH-11199	7	1024x600	HDMI
WSH-12104	7	1024x600	HDMI
WSH-11870	10.1	1024x600	HDMI

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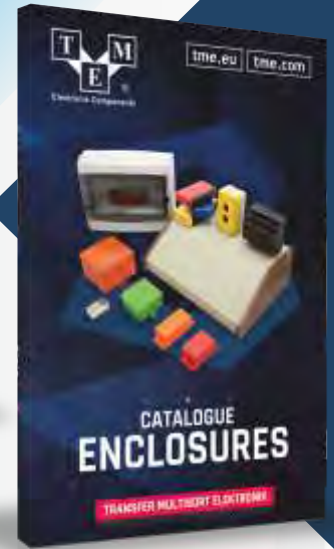
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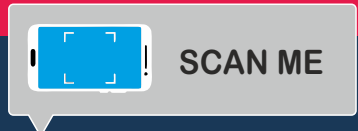


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