



EK9300 | PROFINET RT Bus Coupler

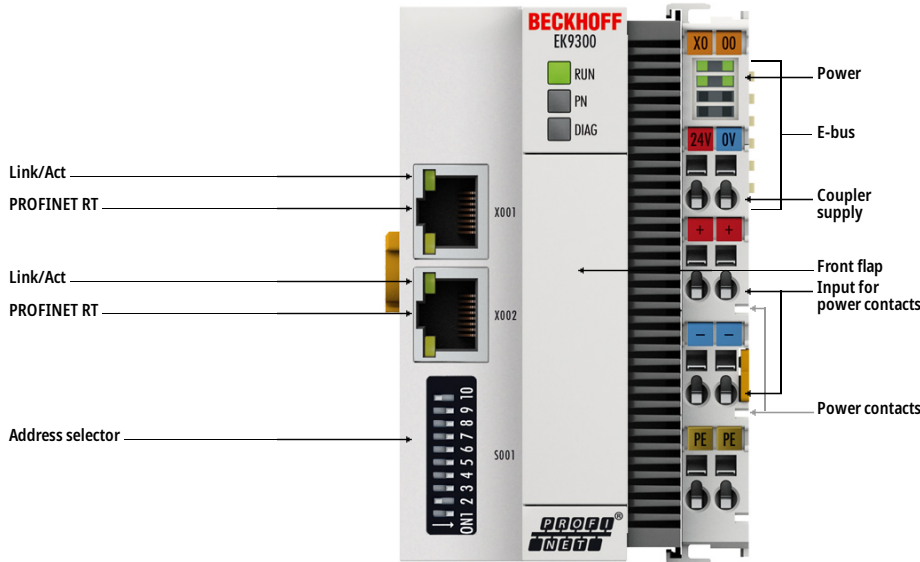


Image similar, may contain optional accessories

i Product status: regular delivery (not recommended for new projects) | recommended alternative: EK9320

The EK9300 Bus Coupler connects PROFINET RT networks to the EtherCAT Terminals (ELxxxx) as well as the EtherCAT Box modules (EPxxxx) and converts the telegrams from PROFINET RT to the E-bus signal representation. One station consists of an EK9300 and any number of EtherCAT Terminals. The coupler is connected to PROFINET RT via RJ45. In EtherCAT, the PROFINET RT coupler has at its disposal a lower-level, powerful and ultra-fast I/O system with a large selection of terminals. The coupler supports the PROFINET RT profile and fits seamlessly into PROFINET RT networks.

Product information

Technical data

Technical data	EK9300
Task within EtherCAT system	coupling of standard digital and analog EtherCAT Terminals and EtherCAT Box modules to PROFINET RT networks
Number of EtherCAT Terminals	depending on the process data size
Type/number of peripheral signals	depending on the process data size
Protocol	PROFINET RT
Data transfer rates	100 Mbit/s
Configuration	not required

Bus interface	2 x RJ45 (switched)
Power supply	24 V DC (-15%/+20%)
Input current	typ. 120 mA + (total E-bus current)/4
Current consumption E-bus	up to 2 A
Power contacts	max. 24 V DC/max. 10 A
Electrical isolation	500 V (power contact/supply voltage/Ethernet)
Dimensions (W x H x D)	64 mm x 100 mm x 73 mm
Operating temperature	-25...+60°C
Storage temperature	-40...+85°C
EMC immunity/emission	conforms to EN 61000-6-2/EN 61000-6-4
Relative humidity	95%, no condensation
Vibration/shock resistance	conforms to EN 60068-2-6/EN 60068-2-27
Protect. rating/installation pos.	IP20/see documentation
Approvals/markings	CE, CCC, UL, ATEX, IECEx, cFMus
Ex marking	ATEX: II 3 G Ex ec IIC T4 Gc IECEx: Ex ec IIC T4 Gc cFMus: Class I, Division 2, Groups A, B, C, D Class I, Zone 2, AEx ec IIC T4 Gc

Housing data	EK-64-8pin
Design form	compact terminal housing with signal LEDs
Material	polycarbonate
Installation	on 35 mm DIN rail, conforming to EN 60715 with lock
Side by side mounting by means of	double slot and key connection
Marking	labeling of the BZxxxx series
Wiring	solid conductor (s), flexible conductor (st) and ferrule (f): spring actuation by screwdriver
Connection cross-section	s*: 0.08...2.5 mm ² , st*: 0.08...2.5 mm ² , f*: 0.14...1.5 mm ²
Connection cross-section AWG	s*: AWG28...14, st*: AWG28...14, f*: AWG26...16
Stripping length	8...9 mm
Current load power contacts	I _{max} : 10 A
Dimensions (W x H x D)	64 mm x 100 mm x 72 mm

*s: solid wire; st: stranded wire; f: with ferrule