

product type designation

RF680T transponder

SIMATIC RF680T PPS, 130 x 32 x 15 mm ISO 18000-63, EPC Class 1 Gen 2 frequency 865 to 928 MHz NXP UCODE G2XM 240 bits (30 bytes) EPC ID 512 bits (64 bytes) user memory fixing by mounting on metal, heat-resistant printing not possible temperature from -40 °C to +200 °C IP68/IPx9K 10 units/carton 1 carton 10 units MOQ



suitability for operation

RF600

product brand name

SIMATIC RF

Technical Product Detail Page

<https://i.siemens.com/1P6GT2810-2HG81>

radio frequencies

operating frequency

865 ... 928 MHz

range / maximum

5 m; observe system manual RF600: overrange is possible, range is reader dependent: observe
<http://support.automation.siemens.com/WW/view/en/67384964>

protocol / with radio transmission

EPCglobal Class 1 Gen 2 / ISO 18000-63

transfer rate / with radio transmission / maximum

320 kbit/s

product feature / multitag-capable

Yes

polarization

Linear

electrical data

product component / backup battery

No

memory

type of memory

EEPROM

storage capacity / of the user memory

64 byte

type of memory organization

EPC memory 96 bit (12 byte) assigned with sequential identifier and expandable up to 240 bit (30 byte), user memory 512 bit (64 byte), TID memory 64 bit (8 byte)

number of read cycles / at ambient temperature < 40 °C / maximum

1E+14

number of write cycles / at ambient temperature < 40 °C / maximum

100000

data retention time / at ambient temperature < 40 °C / not less than

10 a

property of memory

lock, unlock, write protection, password protection

type of transponder chip used

NXP G2XM

mechanical data

material

PPS

color

black

tightening torque / of the screw for securing the equipment / maximum

1 N·m

mounting distance / relating to metal surfaces / recommended / minimum

0 mm

ambient conditions

ambient temperature

- during read/write access -25 ... +100 °C
- outside the read/write area -40 ... +220 °C
- during storage -40 ... +100 °C

ambient condition / for operation	Operating temperature permanent up to 140 °C, for 5000 hours or 3000 cycles up to 200 °C, for 2000 hours or 1500 cycles up to 220 °C
protection class IP	IP68/IPx9K
shock resistance	According to DIN EN 60721-3-7 Class 7 M3
shock acceleration	1000 m/s ²
vibrational acceleration	200 m/s ²
resistance to mechanical stress	Torsion and bending stress not permissible
design, dimensions and weights	
width	32 mm
height	15 mm
depth	130 mm
net weight	50 g
fastening method	2 x M6 screws
product features, product functions, product components / general	
product feature	
• silicon-free	Yes
• tamper-proof	No
• printable	No
standards, specifications, approvals	
certificate of suitability	
• IECEx	No
MTBF	1940 a
further information / internet links	
internet link	
• to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud
• to web page: identification and localization systems	https://www.siemens.com/ident
• to web page: SiePortal	https://sieportal.siemens.com/
• to website: Image database	https://www.automation.siemens.com/bilddb
• to website: CAX-Download-Manager	https://www.siemens.com/cax
• to website: Industry Online Support	https://support.industry.siemens.com
security information	
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Approvals / Certificates	
General Product Approval	



[Manufacturer Declaration](#)

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