

Product type designation

RF610T transponder

SIMATIC RF610T ISO CARD;PVC; 86 X 54 X 0.4 MM; ISO 18000-6C, EPC CLASS 1 GEN 2 FREQUENCY 860 UP TO 928 MHZ CHIP TYPE, NXP G2XM EPC 240 BIT 64 BYTE ADD-ON MEMORY -25 UP TO +85 DGR/C; MINIMAL ORDER QUANTITY 500 PCS



Wireless frequencies

Operating frequency	860 ... 960 MHz
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Electrical data

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 18000-6C
Transfer rate / with radio transmission / maximum	320 kbit/s
Product feature / multitag-capable	Yes
Polarization	Linear
Product component / Backup battery	No

Memory

Type of memory	EEPROM
Storage capacity / of the user memory	64 byte
Type of memory organization	EPC memory 96/240 bits, user memory 64 bytes (512 bits), TID memory 8 bytes
Number of read cycles / at ambient temperature < 40 °C / maximum	100000000000000

Number of write cycles / at ambient temperature < 40 °C / maximum	100000
Data retention time / at ambient temperature < 40 °C / not less than	10 y
Property of memory	lock, unlock, write protection, password protection
Type of transponder chip used	NXP G2XM

Mechanical data

Material	PVC, food-safe
Color	white
Mounting distance / relating to metal surfaces / recommended / minimum	3 mm

Permitted ambient conditions

Ambient temperature	
• during read/write access	-25 ... +85 °C
• outside the read/write area	-40 ... +85 °C
• during storage	-40 ... +85 °C
Protection class IP	IP67
Shock resistance	According to DIN EN 60721-3-7 Class 7 M3
Shock acceleration	1000 m/s ²
Vibrational acceleration	500 m/s ²
Resistance to mechanical stress	Torsion and bending stress conditionally permissible

Design, dimensions and weight

Width	54 mm
Height	0.4 mm
Depth	86 mm
Net weight	3 g
Mounting type	gluing, cable tie, screwing

Product properties, functions, components / general

Product feature	
• printable	Yes
Printing process	Thermal transfer process

Standards, specifications, approvals

MTBF	1712 y
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Accessories

accessories	Fixing strap, spacer
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Further Information / Internet Links

Internet-Link	
• to website: Selector SIMATIC NET SELECTION TOOL	https://support.industry.siemens.com/cs/ww/en/view/67384964
• to website: Industrial communication	http://www.siemens.com/ident/rfid
• to website: Industry Mall	https://mall.industry.siemens.com

- to website: Information and Download Center
- to website: Image database
- to website: CAx Download Manager
- to website: Industry Online Support

<http://www.siemens.com/industry/infocenter>

<http://automation.siemens.com/bilddb>

<http://www.siemens.com/cax>

<https://support.industry.siemens.com>

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