

Product type designation

RF640T transponder

SIMATIC RF640T Tool Tag; 50x 8 mm (DxH); On-Metal Transponder ISO 18000-6C, EPC Class 1 GEN 2, frequency 865 to 868 MHz (ETSI), Chip type NXP G2XM, EPC 240 bit 64-byte add-on memory, Minimum order quantity 10 units



Suitability for operation

RF600

Radio frequencies

Operating frequency	865 ... 868 MHz
Range / maximum	4 m; observe system manual RF600: overrange is possible, range is reader dependent: observe http://support.automation.siemens.com/WW/view/en/67384964
Transfer rate / with radio transmission / maximum	320 kbit/s
Product feature / multitag-capable	Yes
Polarization	Linear

Electrical data

Product component / Backup battery	No
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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	10000000000000

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	PA12
Color	anthracite
Tightening torque / of the screw for securing the equipment / maximum	1.2 N·m
Mounting distance / relating to metal surfaces / recommended / minimum	0 mm

Ambient conditions

Ambient temperature	
<ul style="list-style-type: none"> during read/write access 	-25 ... +85 °C
<ul style="list-style-type: none"> outside the read/write area 	-40 ... +125 °C
<ul style="list-style-type: none"> during storage 	-40 ... +125 °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

Design, dimensions and weights

Height	8 mm
Diameter	50 mm
Net weight	13 g
Mounting type	2 x M4 screws

Product features, product functions, product components / general

Product feature	
<ul style="list-style-type: none"> silicon-free 	Yes
<ul style="list-style-type: none"> printable 	No

Standards, specifications, approvals

Certificate of suitability	
<ul style="list-style-type: none"> IECEX 	Yes
MTBF	1757 y

Further information / Internet-Links

Internet-Link	
<ul style="list-style-type: none"> to website: Selector SIMATIC NET SELECTION TOOL 	https://support.industry.siemens.com/cs/ww/en/view/67384964
<ul style="list-style-type: none"> to website: Industrial communication 	http://www.siemens.com/ident/rfid
<ul style="list-style-type: none"> 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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