

Product type designation

RF630L transponder

SIMATIC RF630L SMARTLABEL INLAY PET 54X34 MM; ISO 18000-6C, EPC CLASS 1 GEN 2 FREQUENCY 860 MHZ UP TO 960 MHZ CHIP TYPE, NXP G2XM 240 BIT EPC MEMORY 64 BYTE ADD-ON MEMORY -40 UP TO +65 DGR/C; 2000 PCS PER EACH ROLL MINIMAL ORDER QUANTITY 2000 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, kill, write protection, password protection
Type of transponder chip used	NXP G2XM

Mechanical data

Material	PET
Color	transparent
Mounting distance / relating to metal surfaces / recommended / minimum	3 mm

Permitted ambient conditions

Ambient temperature	
• during read/write access	-40 ... +65 °C
• outside the read/write area	-40 ... +80 °C
• during storage	15 ... 25 °C
Ambient condition / for operation	Maximum storage life 2 years at 40 to 60 % humidity, operating temperature permanent up to 65 °C, up to 80 °C for 200 cycles
Protection class IP	IP65
Resistance to mechanical stress	Torsion and bending stress conditionally permissible

Design, dimensions and weight

Width	34 mm
Height	0.3 mm
Depth	54 mm
Net weight	1 g
Mounting type	one-side adhesible onto plastic / foil

Product properties, functions, components / general

Product feature	
• printable	Yes
Printing process	Thermal transfer process (currently only using Toshiba B-SX4T)

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	http://www.siemens.com/industry/infocenter
• to website: Image database	http://automation.siemens.com/bilddb
• to website: CAX Download Manager	http://www.siemens.com/cax
• to website: Industry Online Support	https://support.industry.siemens.com

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