

product type designation

Transponder RF630L

SIMATIC RF630L SmartLabel PET white, 105x25 mm ISO 18000-6C, EPC Class 1 Gen 2 frequency 860 to 960 MHz chip type NXP Ucode 7-xm 448-bit (56 bytes) EPC 2048-bit (256 bytes) user memory strongly adhesive on plastic printable thermotransfer temperature from -25 °C to +130 °C roll 76.2 mm (3") core diameter 1,000 units/roll 5 rolls/carton 5,000 units MOQ wash tunnel proof.



suitability for operation

RF600

radio frequencies

operating frequency	860 ... 930 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
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memory

type of memory	EEPROM
storage capacity / of the user memory	256 byte
type of memory organization	EPC 96 bit (12 byte) expandable up to 448 bit (56 byte), user memory 2048 bit (256 byte), TID 96 bit (12 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, kill, write protection, password protection
type of transponder chip used	NXP Ucode 7-xm 2k

mechanical data

material	PET
color	white
mounting distance / relating to metal surfaces / recommended / minimum	3 mm

ambient conditions

ambient temperature	
<ul style="list-style-type: none"> during read/write access outside the read/write area during storage 	<p>-25 ... +85 °C</p> <p>-25 ... +130 °C</p> <p>5 ... 25 °C</p>
ambient condition / for operation	Maximum storage life 2 years
protection class IP	IP67 in bonded state, suitable for washing facilities
resistance to mechanical stress	Torsion and bending stress conditionally permissible

design, dimensions and weights

width	105 mm
height	0.3 mm

depth	25 mm
net weight	3 g
fastening method	one-side adhesive
pack type	Rolls with 1000 labels for applicator with 3" core
product features, product functions, product components / general	
product feature	
• tamper-proof	No
• printable	Yes
printing process	Thermal transfer process
standards, specifications, approvals	
certificate of suitability	
• IECEx	No
further information / internet links	
internet link	
• to web page: selection aid TIA 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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