

product type designation

Transponder RF630L

SIMATIC RF630L SmartLabel PET white, 105 x 25 mm ISO 18000-63, EPC Class 1 Gen 2 frequency 860 to 960 MHz NXP UCODE 7xm-2k 448 bits (56 bytes) EPC ID 2048 bits (256 bytes) user memory self-adhesive strongly adhesive on plastic printable thermotransfer temperature from -25 °C to +85 °C IP67 1,000 units/roll 5 rolls/carton 5,000 units MOQ roll 76.2 mm (3") core diameter



suitability for operation

RF600

Technical Product Detail Page

<https://l.siemens.com/1P6GT2810-2AE83-0AX1>

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 adhesible
pack type	Rolls with 1000 labels for applicator with 3" core

product features, product functions, product components / general

product feature	
<ul style="list-style-type: none"> • tamper-proof • printable 	No Yes
printing process	Thermal transfer process

standards, specifications, approvals

certificate of suitability	
<ul style="list-style-type: none"> • IECEx 	No

standards, specifications, approvals / Environmental Product Declaration

Environmental Product Declaration	Yes
global warming potential [CO2 eq]	
<ul style="list-style-type: none"> • total • during manufacturing • during operation • after end of life 	0.0088 kg 0.0086 kg 0.00017 kg 5E-5 kg

further information / internet links

internet link	
<ul style="list-style-type: none"> • to web page: selection aid TIA Selection Tool • to web page: identification and localization systems • to web page: SiePortal • to website: Image database • to website: CAx-Download-Manager • to website: Industry Online Support 	https://www.siemens.com/tstcloud https://www.siemens.com/ident https://sieportal.siemens.com/ https://www.automation.siemens.com/bilddb https://www.siemens.com/cax https://support.industry.siemens.com

security information

security information	<p>Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)</p>
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Approvals / Certificates

General Product Approval	EMV	Environment
  	Manufacturer Declaration	

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