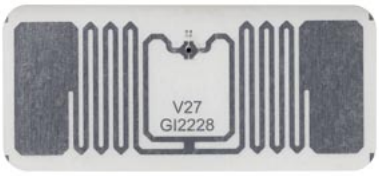
SIEMENS

Data sheet 6GT2810-2AE83-1AX0

product type designation	**Transponder RF630L**
	SIMATIC RF630L SmartLabel PET white, 45 x 20 mm ISO 18000-63, EPC Class 1 Gen 2 frequency 860 to 960 MHz NXP UCODE 8 128 bits (16 bytes) EPC ID 0 bits (0 bytes) user memory self-adhesive strongly adhesive on plastic printable thermotransfer temperature from -25 °C to +85 °C IP67 2,500 units/roll 2 rolls/carton 5,000 units MOQ roll 76.2 mm (3") core diameter



suitability for operation	RF600
product brand name	SIMATIC RF
Technical Product Detail Page	https://i.siemens.com/1P6GT2810-2AE83-1AX0
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
memory	
type of memory	EEPROM
storage capacity / of the user memory	16 byte
type of memory organization	EPC 128 bit (16 byte), no user memory
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 8
mechanical data	
material	PET
color	white
mounting distance / relating to metal surfaces / recommended / minimum	3 mm
ambient conditions	
ambient temperature	
• during read/write access	-25 ... +85 °C
• outside the read/write area	-25 ... +130 °C
• during storage	5 ... 25 °C
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

Subject to change without notice
© Copyright Siemens

design, dimensions and weights	
width	45 mm
height	0.3 mm
depth	20 mm
net weight	3 g
fastening method	one-side adhesible
pack type	Rolls with 2500 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
standards, specifications, approvals / Environmental Product Declaration	
Environmental Product Declaration	Yes
global warming potential [CO2 eq]	
• total	0.0088 kg
• during manufacturing	0.0086 kg
• during operation	0.00017 kg
• after end of life	5E-5 kg
further information / internet links	
internet link	
• to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud
• to web page: identification and localization systems	https://www.siemens.com/ident
• to web page: SiePortal	https://sieportal.siemens.com/
• to website: Image database	https://www.automation.siemens.com/bilddb
• to website: CAx-Download-Manager	https://www.siemens.com/cax
• to website: Industry Online Support	https://support.industry.siemens.com
security information	
security information	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)

Approvals / Certificates

General Product Approval				EMV	Environment
EAC	CE EG-Konf.	UKCA	Manufacturer Declaration	KC	EPD

Environment

Subject to change without notice
© Copyright Siemens

last modified:	6/28/2026

Subject to change without notice
© Copyright Siemens