

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

Technical Product Detail Page

<https://l.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

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|--|---|
| 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

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|---|---|
| ambient temperature | |
| <ul style="list-style-type: none"> during read/write access outside the read/write area during storage | -25 ... +85 °C -25 ... +130 °C 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 |

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 | |
| <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

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|----------------------|---|
| 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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