

product type designation

Reader RF1040R USB/RS232

SIMATIC RF1000 Access Control Reader RF1040R; LF 125 kHz, HITAG 1/2/S, EM41xx, HF, ISO 14443 A/B, ISO15693; USB port, including RS 232 interface; IP65 front, -25 to +55 °C; 90 x 62 x 25 mm LxWxH; with integrated antenna, including 1.8 m USB connecting cable. with BLE



Technical Product Detail Page

<https://l.siemens.com/1P6GT2831-6CA60>

suitability for operation

HiTag 1/2/S, EM4xxx, ISO 15693 and ISO 14443 A/B transponder, for connecting to PC and control systems

radio frequencies

| | |
|---|---|
| operating frequency | 0.125 ... 13.56 MHz |
| range / maximum | 0.03 m; Range is dependent on transponder type: observe http://support.automation.siemens.com/WW/view/en/67384964 |
| protocol / with radio transmission | HiTag 1/2/S, EM41xx/45xx, EKS key, ISO 15693, ISO 14443 A/B, Felica, NXP NTAG21x, HID iClass |
| transfer rate / with radio transmission / maximum | 424 kbit/s |
| product feature / multitag-capable | Yes |
| operating frequency / 1 | 2.4 GHz (only for BLE support) |

electrical data

| | |
|---|--------------|
| transfer rate / at the point-to-point connection / serial / maximum | 115.2 kbit/s |
|---|--------------|

interfaces

| | |
|---|--|
| standard for interfaces / for communication | USB 2.0, RS232 |
| type of electrical connection | 1.8 m connecting cable with USB 2.0 type A connector or RS232 connecting cable |

mechanical data

| | |
|--|---------------|
| material | PC-GF |
| color | titanium gray |
| mounting distance / relating to metal surfaces / recommended / minimum | 0 mm |

supply voltage, current consumption, power loss

| | |
|--------------------------|----------------|
| supply voltage / at DC | |
| • rated value | 5 V |
| • | 4.6 ... 5.25 V |
| consumed current / at DC | |
| • at 5 V / typical | 0.15 A |
| • at 5 V / maximum | 0.3 A |

ambient conditions

| | |
|--------------------------|--|
| ambient temperature | |
| • during operation | -25 ... +55 °C |
| • during storage | -25 ... +55 °C |
| • during transport | -25 ... +55 °C |
| protection class IP | IP65; on front after cabinet installation, IP20 rear |
| shock resistance | EN 60721-3-7 Class 7 M2 |
| shock acceleration | 300 m/s ² |
| vibrational acceleration | 50 m/s ² |

| design, dimensions and weights | |
|--------------------------------|--------------------------------------|
| width | 90 mm |
| height | 62 mm |
| depth | 23.5 mm |
| net weight | 0.12 kg |
| fastening method | 4 M4 screws for cabinet installation |

| product features, product functions, product components / general | |
|---|-------------|
| display version | 3-color LED |
| product feature / silicon-free | Yes |

| standards, specifications, approvals | |
|--|---|
| certificate of suitability | Radio according to R&TTE guidelines EN300 330 and EN 301489, FCC, cULus |
| certificate of suitability <ul style="list-style-type: none"> • IECEx | No |

| accessories | |
|-------------|--|
| accessories | card holder, USB cable 0.5 m, table/wall box, clean room cover, BLE license, HID license |

| further information / internet links | |
|--|---|
| internet link <ul style="list-style-type: none"> • to web page: selection aid TIA Selection Tool • to web page: RFID country approval • 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/rfid-approvals 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> |

Approvals / Certificates

General Product Approval



[Manufacturer Declaration](#)



| Radio Equipment Type Approval Certificate | | | |
|---|-------------------------------|-------------------------------|---------------------|
| Industry Canada (IC) | Miscellaneous | Miscellaneous | FCC |

last modified:

11/13/2025