

### product type designation

### Reader RF1070R OEM USB/RS232

SIMATIC RF1000 Access control reader RF1070R OEM variant ISO 14443 A/B Mifare, ISO15693 Legic Prime, Legic Advant USB port RS232 interface IP65 front, -25 to +55 °C 90x62x25 mm LxWxH with integrated antenna including 1.8 m USB cable company logo enclosed.



Technical Product Detail Page

<https://i.siemens.com/1P6GT2831-6BA60-0AX0>

suitability for operation

Legic, ISO 15693 and ISO 14443 A/B transponder, for connecting to PC and control systems, for front panels with customer-specific design

### radio frequencies

|   |   |
|---|---|
| operating frequency / rated value                 | 13.56 MHz   |
| range / maximum                                   | 0.03 m; Range is dependent on transponder type: observe <a href="http://support.automation.siemens.com/WW/view/en/67384964">http://support.automation.siemens.com/WW/view/en/67384964</a> |
| protocol / with radio transmission                | Legic Prime, Legic Advant, ISO 15693, ISO 14443 A/B, chip set: SM4200M, Felica, NXP NTAG21x, HID iClass   |
| transfer rate / with radio transmission / maximum | 106 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 professional gluing of the included front label and cabinet installation, IP20 rear |
| shock resistance    | EN 60721-3-7 Class 7 M2  |
| shock acceleration  | 300 m/s <sup>2</sup>   |

|  |  |
|--|--|
| vibrational acceleration   | 50 m/s <sup>2</sup>  |
| <b>design, dimensions and weights</b>  |  |
| width  | 90 mm  |
| height   | 62 mm  |
| depth  | 23.5 mm  |
| net weight   | 0.12 kg  |
| fastening method   | 4 M4 screws for cabinet installation   |
| <b>product features, product functions, product components / general</b>   |  |
| display version  | 3-color LED  |
| product feature / silicon-free   | Yes  |
| <b>standards, specifications, approvals</b>  |  |
| 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"> <li>• IECEX</li> </ul>   | No   |
| <b>accessories</b>   |  |
| accessories  | Card holder, USB cable 0.5 m, RS232 connection cable, front label in customer design to be created by the customer, HID license card, BLE license card, cleanroom cover, desktop housing   |
| <b>further information / internet links</b>  |  |
| internet link <ul style="list-style-type: none"> <li>• to web page: selection aid TIA Selection Tool</li> <li>• to web page: RFID country approval</li> <li>• to web page: identification and localization systems</li> <li>• to web page: SiePortal</li> <li>• to website: Image database</li> <li>• to website: CAx-Download-Manager</li> <li>• to website: Industry Online Support</li> </ul> | <a href="https://www.siemens.com/tstcloud">https://www.siemens.com/tstcloud</a><br><a href="https://www.siemens.com/rfid-approvals">https://www.siemens.com/rfid-approvals</a><br><a href="https://www.siemens.com/ident">https://www.siemens.com/ident</a><br><a href="https://sieportal.siemens.com/">https://sieportal.siemens.com/</a><br><a href="https://www.automation.siemens.com/bilddb">https://www.automation.siemens.com/bilddb</a><br><a href="https://www.siemens.com/cax">https://www.siemens.com/cax</a><br><a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>  |
| <b>security information</b>  |  |
| 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 <a href="http://www.siemens.com/cybersecurity-industry">www.siemens.com/cybersecurity-industry</a> . 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 <a href="https://www.siemens.com/cert">https://www.siemens.com/cert</a> . (V4.7) |

**Approvals / Certificates**

|  |   |
|--|---|
| <b>General Product Approval</b>  | <b>Radio Equipment Type Approval Certificate</b>  |
| <br>IECEX | <br>EG-Konf. |
|           | <br>UL     |
| <a href="#">Manufacturer Declaration</a>   | <a href="#">Industry Canada (IC)</a>  |

**Radio Equipment Type Approval Certificate**

|                               |                               |                     |
|-------------------------------|-------------------------------|---------------------|
| <a href="#">Miscellaneous</a> | <a href="#">Miscellaneous</a> | <a href="#">FCC</a> |
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