

product type designation

**Reader RF1070R USB/RS232**

SIMATIC RF1000 access control reader RF1070R; ISO 14443 A/B Mifare, ISO15693 Legic Prime; Legic Advant USB port; 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 BLE



product brand name

SIMATIC RF

Technical Product Detail Page

<https://l.siemens.com/1P6GT2831-6BA60>

suitability for operation

Legic, ISO 15693 and ISO 14443 A/B transponder, for connecting to PC and control systems

### 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, table/wall box, clean room cover, BLE license, HID license				
<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> <a href="https://www.siemens.com/rfid-approvals">https://www.siemens.com/rfid-approvals</a> <a href="https://www.siemens.com/ident">https://www.siemens.com/ident</a> <a href="https://sieportal.siemens.com/">https://sieportal.siemens.com/</a> <a href="https://www.automation.siemens.com/bilddb">https://www.automation.siemens.com/bilddb</a> <a href="https://www.siemens.com/cax">https://www.siemens.com/cax</a> <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)				
<b>Approvals / Certificates</b>					
<b>General Product Approval</b>					
					<a href="#">Manufacturer Declaration</a>
<b>General Product Approval</b>		<b>EMV</b>	<b>Radio Equipment Type Approval Certificate</b>		
			<a href="#">Industry Canada (IC)</a>	<a href="#">Miscellaneous</a>	<a href="#">Miscellaneous</a>
<b>Radio Equipment Type Approval Certificate</b>				<b>Industrial Communication</b>	

[FCC](#)

[Miscellaneous](#)

[Miscellaneous](#)

[Miscellaneous](#)

[Miscellaneous](#)

---

last modified:

3/10/2026 