SIEMENS

Data sheet 6GT2831-6BA60

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://i.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 http://support.automation.siemens.com/WW/view/en/67384964
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

Subject to change without notice
© Copyright Siemens

shock acceleration	300 m/s²
vibrational acceleration	50 m/s²
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	
● 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 / to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud
● internet link / to web page: RFID country approval	https://www.siemens.com/rfid-approvals
● internet link / to web page: identification and localization systems	https://www.siemens.com/ident
● internet link / to web page: SiePortal	https://sieportal.siemens.com/
● internet link / to website: Image database	https://www.automation.siemens.com/bilddb
● internet link / to website: CAx-Download-Manager	https://www.siemens.com/cax
● internet link / 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

IECEx | EG-Konf. | UKCA | UL | RCM | Manufacturer Declaration

General Product Approval	EMV	Radio Equipment Type Approval Certificate		
EG-Konf.	UKCA	Industry Canada (IC)	Miscellaneous	Miscellaneous

© Copyright Siemens

Radio Equipment Type Approval Certificate				Industrial Communication
FCC	Miscellaneous	Miscellaneous	Miscellaneous	Miscellaneous

last modified: 3/10/2026

Subject to change without notice
© Copyright Siemens