SIEMENS

Data sheet 6GT2801-1BA10-0AX1

product type designation

RF310R reader

SIMATIC RF300; Reader RF310R (GEN2) with RS422 interface (3964R); IP67, -25 to +70 °C, 55x 75x 30 mm, with integrated antenna; special variant with rotated base plate (90°).



product brand name	SIMATIC RF
Technical Product Detail Page	https://i.siemens.com/1P6GT2801-1BA10-0AX1
suitability for operation	RF300, ISO 15693 and MOBY E transponder, for connecting to communication modules, rotated base plate
radio frequencies	
operating frequency / rated value	13.56 MHz
range / maximum	60 mm; Range is dependent on transponder type: observe http://support.automation.siemens.com/WW/view/en/67384964
protocol / with radio transmission	RF300 specific, ISO 15693, ISO 18000-3, ISO 14443
transfer rate / with radio transmission / maximum	106 kbit/s
product feature / multitag-capable	No
electrical data	
transfer rate / at the point-to-point connection / serial / maximum	115.2 kbit/s
transmission time / for user data	
● for write access / per byte / typical	0.13 ms
● for read access / per byte / typical	0.13 ms
interfaces	
standard for interfaces / for communication	RS422
type of electrical connection	M12, 8-pin
mechanical data	
material	PA 12
color	titanium gray
tightening torque / of the screw for securing the equipment / maximum	1.5 N·m
mounting distance / relating to metal surfaces / recommended / minimum	0 mm
supply voltage, current consumption, power loss	
supply voltage / at DC	
● rated value	24 V
●	20.4 ... 28.8 V
consumed current / at DC	
● at 24 V / typical	0.06 A
ambient conditions	
ambient temperature	
● during operation	-25 ... +70 °C
● during storage	-40 ... +85 °C
● during transport	-40 ... +85 °C
protection class IP	IP67
shock resistance	EN 60721-3-7 Class 7 M2

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shock acceleration	500 m/s²
vibrational acceleration	200 m/s²
design, dimensions and weights	
width	75 mm
height	30 mm
depth	55 mm
net weight	0.2 kg
fastening method	4 x M5 screws
wire length	
● for RS 422 interface / maximum	1000 m
product features, product functions, product components / general	
display version	5-color LED
product feature / silicon-free	Yes
standards, specifications, approvals	
certificate of suitability	Radio acc. to R&TTE guidelines EN 300 330, EN 301489, CE, FCC, cULus
certificate of suitability	
● IECEx	No
MTBF	273 a
standards, specifications, approvals / Environmental Product Declaration	
Environmental Product Declaration	Yes
global warming potential [CO2 eq]	
● total	50.4 kg
● during manufacturing	10.7 kg
● during operation	39.4 kg
● after end of life	0.3 kg
further information / internet links	
● internet link / to website: Selection guide for cables and connectors	https://support.industry.siemens.com/cs/ww/en/view/109766358
● 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	

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China RoHS | Manufacturer Declaration

General Product Approval				EMV	Radio Equipment Type Approval Certificate
		China RoHS	Manufacturer Declaration		Miscellaneous

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

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