

### product type designation

### Reader RF380R (EX)

SIMATIC RF300 Reader RF380R (GEN2) RS422/232 interface (3964R) IP67, -25 to +70 °C, 160x 80x 41 mm with integrated antenna special variant ATEX (Zone 3G/3D) and IECEx (Gc/Dc) for Zone 2/22 .



Figure similar

### suitability for operation

RF300, ISO 15693 and MOBY E transponder, for connecting to communications modules, EX: II 3 G Ex ec IIC T4 Gc, II 3 D Ex tc IIIC T80 °C Dc

### radio frequencies

operating frequency / rated value	13.56 MHz
range / maximum	200 mm; 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	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/RS232
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	0.15 A

### ambient conditions

ambient temperature	
• during operation	-25 ... +70 °C
• during storage	-40 ... +85 °C
• during transport	-40 ... +85 °C
protection class IP	IP64
shock resistance	EN 60721-3-7 Class 7 M2
shock acceleration	500 m/s <sup>2</sup>

vibrational acceleration	200 m/s <sup>2</sup>	
<b>design, dimensions and weights</b>		
width	80 mm	
height	41 mm	
depth	160 mm	
net weight	0.6 kg	
fastening method	4 x M5 screws	
wire length		
• with RS 232 interface / maximum	30 m	
• for RS 422 interface / maximum	1000 m	
<b>product features, product functions, product components / general</b>		
display version	5-color LED	
product feature / silicon-free	Yes	
<b>standards, specifications, approvals</b>		
certificate of suitability	Radio acc. to R&TTE guidelines EN 300 330, EN 301489, CE, FCC, cULus, ATEX: EN 60079-0:2012+A11:2013, EN 60079-7:2015, EN60079-31:2014, IEC Ex: IEC 60079-0:2011, IEC 60079-31:2013, EN 60079-7:2015, UL HAZ.LOC: UL 60079-0, CSA C22.2 NO.60079-0, UL 60079-7, CSA C22.2 NO. 60079-7, UL 60079-31, CSA C22.2 NO. 60079-31	
certificate of suitability		
• IECEx	Yes	
• for IECEx / as marking	EX: II 3 G Ex ec IIC T4 Gc, II 3 D Ex tc IIIC T80 °C Dc	
MTBF	173 a	
reference code		
• according to IEC 81346-2:2019	BYB	
<b>standards, specifications, approvals / Environmental Product Declaration</b>		
Environmental Product Declaration	Yes	
global warming potential [CO2 eq]		
• total	10.7 kg	
• during manufacturing	98.5 kg	
• during operation	0.3 kg	
• after end of life	0.3 kg	
<b>further information / internet links</b>		
internet link		
• to website: Selection guide for cables and connectors	<a href="https://support.industry.siemens.com/cs/ww/en/view/109766358">https://support.industry.siemens.com/cs/ww/en/view/109766358</a>	
• to web page: selection aid TIA Selection Tool	<a href="https://www.siemens.com/tstcloud">https://www.siemens.com/tstcloud</a>	
• to web page: RFID country approval	<a href="https://www.siemens.com/rfid-approvals">https://www.siemens.com/rfid-approvals</a>	
• to web page: identification and localization systems	<a href="https://www.siemens.com/ident">https://www.siemens.com/ident</a>	
• to web page: SiePortal	<a href="https://sieportal.siemens.com/">https://sieportal.siemens.com/</a>	
• to website: Image database	<a href="https://www.automation.siemens.com/bilddb">https://www.automation.siemens.com/bilddb</a>	
• to website: CAX-Download-Manager	<a href="https://www.siemens.com/cax">https://www.siemens.com/cax</a>	
• to website: Industry Online Support	<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>	<b>EMV</b>	<b>For use in hazardous locations</b>



[Manufacturer Declaration](#)

[KC](#)



For use in hazardous locations	Radio Equipment Type Approval Certificate	Environment
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[CCC-Ex](#)



[Miscellaneous](#)



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