

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
communication modules, EX: II 3 G Ex ec IIB 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 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/RS232
type of electrical connection	M12, 8-pin

mechanical data

material	PA 12
color	Ti 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
• at DC	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 ²
vibrational acceleration	200 m/s ²
design, dimensions and weights	
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
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, 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 IIB T4 Gc, II 3 D Ex tc IIIC T80 °C Dc
MTBF	173 y
further information / internet-Links	
Internet-Link	
• to web page: selection aid TIA Selection Tool	https://support.industry.siemens.com/cs/ww/en/view/67384964
• to website: Industrial communication	http://www.siemens.com/ident/rfid
• to website: Industry Mall	https://mall.industry.siemens.com
• to website: Information and Download Center	http://www.siemens.com/industry/infocenter
• to website: Image database	http://automation.siemens.com/bilddb
• to website: CAX-Download-Manager	http://www.siemens.com/cax
• to website: Industry Online Support	https://support.industry.siemens.com
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