

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°).

Technical Product Detail Page

<https://l.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
shock acceleration	500 m/s ²

vibrational acceleration	200 m/s ²				
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				
• to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud				
• to web page: RFID country approval	https://www.siemens.com/rfid-approvals				
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security information					
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