

product type designation

**RF280R ASCII reader**

SIMATIC RF200 reader RF280R (ASCII/scan mode) RS232 interface IP67, -10 to +60 °C, 160x 80x 41 mm with integrated antenna.



product brand name

SIMATIC RF

Technical Product Detail Page

<https://l.siemens.com/1P6GT2821-8AC40>

suitability for operation

ISO 15693 transponder (MDS Dxxx), for connecting to PC and control systems (incl. Scan Mode)

### 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/WWW/view/en/67384964>

protocol / with radio transmission

ISO 15693, ISO 18000-3

transfer rate / with radio transmission / maximum

26.5 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

1.2 ms

- for read access / per byte / typical

1.2 ms

### interfaces

standard for interfaces / for communication

RS232

type of electrical connection

M12, 8-pin

- for communications interface

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

0.13 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 <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	1.6 kg
fastening method	4 x M5 screws
wire length	
• with RS 232 interface / maximum	30 m
<b>product features, product functions, product components / general</b>	
display version	3-color LED
product feature / silicon-free	Yes
<b>standards, specifications, approvals</b>	
certificate of suitability	Radio according to R&TTE guidelines EN300 330 and EN 301489, FCC, cULus
certificate of suitability	
• IECEx	No
MTBF	173 a
<b>standards, specifications, approvals / Environmental Product Declaration</b>	
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
<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>	
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<b>Approvals / Certificates</b>	
<b>General Product Approval</b>	



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