

product type designation

**RF210R reader IO-Link**

SIMATIC RF200 reader RF210R IO-Link interface V1.1; IP67, -25 to +70 °C; M18x 83 mm; with integrated antenna 32 Byte IO; 230 Kbit/s



product brand name

SIMATIC RF

Technical Product Detail Page

<https://l.siemens.com/1P6GT2821-1BC32>

suitability for operation

ISO 15693 transponder (MDS Dxxx), for connecting to IO-Link Master V1.1

### radio frequencies

operating frequency / rated value

13.56 MHz

range / maximum

20 mm; Range is dependent on transponder type: observe <http://support.automation.siemens.com/WW/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

230 kbit/s

transmission time / for user data

- for write access / per byte / typical

3.3 ms

- for read access / per byte / typical

2.4 ms

data volume / of the address range of the inputs / total

32 byte

data volume / of the address range of the outputs / total

32 byte

### interfaces

standard for interfaces / for communication

IO-Link V1.1

type of electrical connection

M12, 4-pin

### mechanical data

material

Brass, nickel-plated / PBT

color

silver/pastel turquoise

tightening torque / of the screw for securing the equipment / maximum

20 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

0.05 A

### ambient conditions

ambient temperature

- during operation

-20 ... +70 °C

- during storage

-25 ... +80 °C

- during transport

-25 ... +80 °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>	
height	83 mm
diameter	18 mm
net weight	0.065 kg
fastening method	2 nuts M18 x 1 (included in scope of supply)
wire length	
• between master and IO-Link device / maximum	20 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	505 a
<b>standards, specifications, approvals / Environmental Product Declaration</b>	
Environmental Product Declaration	Yes
global warming potential [CO2 eq]	
• total	43.51 kg
• during manufacturing	10.7 kg
• during operation	32.51 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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#### Approvals / Certificates

##### General Product Approval



[China RoHS](#)

General Product Approval	EMV	Radio Equipment Type Approval Certificate		Environment
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[Manufacturer Declaration](#)



[Miscellaneous](#)

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