

product type designation

RF220R reader IO-Link

SIMATIC RF200 reader RF220R IO-Link interface V1.1; IP67, -25 to +70 °C; M30x 83 mm; with integrated antenna 32 Byte IO; 230 Kbit/s



product brand name

SIMATIC RF

Technical Product Detail Page

<https://l.siemens.com/1P6GT2821-2BC32>

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

35 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

40 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 ²
vibrational acceleration	200 m/s ²
design, dimensions and weights	
height	83 mm
diameter	30 mm
net weight	0.14 kg
fastening method	2 nuts M30 x 1.5 (included in scope of supply)
wire length	
• between master and IO-Link device / maximum	20 m
product features, product functions, product components / general	
display version	3-color LED
product feature / silicon-free	Yes
standards, specifications, approvals	
certificate of suitability	Radio according to R&TTE guidelines EN300 330 and EN 301489, FCC, cULus
certificate of suitability	
• IECEx	No
MTBF	501 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
• to web page: identification and localization systems	https://www.siemens.com/ident
• to web page: SiePortal	https://sieportal.siemens.com/
• to website: Image database	https://www.automation.siemens.com/bilddb
• to website: CAX-Download-Manager	https://www.siemens.com/cax
• to website: Industry Online Support	https://support.industry.siemens.com
security information	
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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](#)



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