

### product type designation



### RF250R reader IO-Link

SIMATIC RF200 Reader RF250R IO-Link IO-Link interface without antenna IP65, -25 to +70 °C, 50x 50x 30 mm, can be operated with: ANT 1, 3, 3NO, 8, 12, 18, 30; 8 byte IO; 38.4 Kbit/s.

product brand name	SIMATIC RF
Technical Product Detail Page	<a href="https://l.siemens.com/1P6GT2821-5AC32">https://l.siemens.com/1P6GT2821-5AC32</a>
suitability for operation	ISO 15693 transponder (MDS Dxxx), for connecting to IO-Link Master V1.0
<b>radio frequencies</b>	
operating frequency / rated value	13.56 MHz
range / maximum	60 mm; Range is dependent on transponder type: observe <a href="http://support.automation.siemens.com/WW/view/en/67384964">http://support.automation.siemens.com/WW/view/en/67384964</a>
protocol / with radio transmission	ISO 15693, ISO 18000-3
transfer rate / with radio transmission / maximum	26.5 kbit/s
product feature / multitag-capable	No
<b>electrical data</b>	
transfer rate / at the point-to-point connection / serial / maximum	38.4 kbit/s
transmission time / for user data	
• for write access / per byte / typical	40 ms
• for read access / per byte / typical	40 ms
data volume / of the address range of the inputs / total	8 byte
data volume / of the address range of the outputs / total	8 byte
<b>interfaces</b>	
number of external antennas	1
standard for interfaces / for communication	IO-Link V1.0
type of electrical connection	
• for external antenna(s)	M8, 4-pin
• for communications interface	M12, 4-pin
<b>mechanical data</b>	
material	PA6.6
color	anthracite
tightening torque / of the screw for securing the equipment / maximum	1.5 N·m
mounting distance / relating to metal surfaces / recommended / minimum	0 mm
<b>supply voltage, current consumption, power loss</b>	
supply voltage / at DC	
• rated value	24 V
•	20.4 ... 28.8 V
consumed current / at DC	
• at 24 V / typical	0.05 A
<b>ambient conditions</b>	
ambient temperature	
• during operation	-20 ... +70 °C

<ul style="list-style-type: none"> <li>during storage</li> </ul>	-25 ... +80 °C
<ul style="list-style-type: none"> <li>during transport</li> </ul>	-25 ... +80 °C
protection class IP	IP65
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>

#### design, dimensions and weights

width	50 mm
height	30 mm
depth	50 mm
net weight	0.06 kg
fastening method	2 x M5 screws
wire length	
<ul style="list-style-type: none"> <li>between master and IO-Link device / maximum</li> </ul>	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	
<ul style="list-style-type: none"> <li>IECEX</li> </ul>	No
MTBF	430 a

#### standards, specifications, approvals / Environmental Product Declaration

Environmental Product Declaration	Yes
global warming potential [CO2 eq]	
<ul style="list-style-type: none"> <li>total</li> <li>during manufacturing</li> <li>during operation</li> <li>after end of life</li> </ul>	50.4 kg 10.7 kg 39.4 kg 0.3 kg

#### accessories

accessories	Various antennas are available
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#### further information / internet links

internet link	
<ul style="list-style-type: none"> <li>to website: Selection guide for cables and connectors</li> <li>to web page: selection aid TIA Selection Tool</li> <li>to web page: RFID country approval</li> <li>to web page: identification and localization systems</li> <li>to web page: SiePortal</li> <li>to website: Image database</li> <li>to website: CAX-Download-Manager</li> <li>to website: Industry Online Support</li> </ul>	<a href="https://support.industry.siemens.com/cs/ww/en/view/109766358">https://support.industry.siemens.com/cs/ww/en/view/109766358</a> <a href="https://www.siemens.com/tstcloud">https://www.siemens.com/tstcloud</a> <a href="https://www.siemens.com/rfid-approvals">https://www.siemens.com/rfid-approvals</a> <a href="https://www.siemens.com/ident">https://www.siemens.com/ident</a> <a href="https://sieportal.siemens.com/">https://sieportal.siemens.com/</a> <a href="https://www.automation.siemens.com/bilddb">https://www.automation.siemens.com/bilddb</a> <a href="https://www.siemens.com/cax">https://www.siemens.com/cax</a> <a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>

#### security information

security information	<p>Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement - and continuously maintain - a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit <a href="http://www.siemens.com/cybersecurity-industry">www.siemens.com/cybersecurity-industry</a>. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under <a href="https://www.siemens.com/cert">https://www.siemens.com/cert</a>. (V4.7)</p>
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#### Approvals / Certificates

##### General Product Approval



[China RoHS](#)



General Product Approval

EMV

Radio Equipment Type Approval Certificate



[China RoHS](#)

[Manufacturer Declaration](#)



[Miscellaneous](#)

[ECC](#)

Radio Equipment Type Approval Certificate

Environment



[Miscellaneous](#)



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