

### Product type designation

Product description

### RUGGEDCOM RMC20

2-Port media converter serial-to-fiber and serial standards, convert RS232 to either RS485 or RS422 serial standards  
RUGGEDCOM RMC20 media converter is a utility-grade, protocol-independent, serial-to-fiber and serial standards converter for all your serial communication requirements. The RMC20 allows RS485, RS422, or RS232 devices or networks to communicate over secure, noise immune, optically isolated, fiber optic cabling at extended distances as well convert RS232 to either RS485 or RS422 serial standards.

- acc. to RS 232
- acc. to RS 422/485

300 bit/s ... 115200 bit/s

300 bit/s ... 115200 bit/s

### Interfaces

Number of electrical connections	
<ul style="list-style-type: none"> <li>• for network components or terminal equipment / maximum</li> </ul>	1
<ul style="list-style-type: none"> <li>• for serial interfaces / acc. to RS 232/RS 422/RS 485 / maximum</li> </ul>	2
<ul style="list-style-type: none"> <li>• for power supply</li> </ul>	1
<ul style="list-style-type: none"> <li>• for redundant voltage supply</li> </ul>	0
Type of electrical connection	
<ul style="list-style-type: none"> <li>• for network components or terminal equipment</li> </ul>	7-pole terminal block
<ul style="list-style-type: none"> <li>• for power supply</li> </ul>	3-pole terminal block
Number of optical interfaces	
<ul style="list-style-type: none"> <li>• for network components or terminal equipment / maximum</li> </ul>	1
<ul style="list-style-type: none"> <li>• for fiber optic cable / in serial operation</li> </ul>	1
Design of the optical interface / for fiber optic cable	
<ul style="list-style-type: none"> <li>• at 10 Mbit/s</li> </ul>	ST-Port (BFOC-Port)
Range / at the optical interface / depending on the optical fiber used	
<ul style="list-style-type: none"> <li>• minimum</li> </ul>	0 km
<ul style="list-style-type: none"> <li>• maximum</li> </ul>	5 km

### Supply voltage, current consumption, power loss

product options / wide range power supply	Yes
<b>Supply voltage / 1 / Rated value</b>	24 V
<ul style="list-style-type: none"> <li>• Supply voltage / 1 / rated value</li> </ul>	18 ... 36 V
<ul style="list-style-type: none"> <li>• Type of voltage / 1 / of the supply voltage</li> </ul>	DC
<b>Supply voltage / 2 / Rated value</b>	48 V

<ul style="list-style-type: none"> <li>• Supply voltage / 2 / rated value</li> <li>• Type of voltage / 2 / of the supply voltage</li> </ul>	36 ... 59 V DC
<b>Supply voltage / 3 / Rated value</b>	110 V
<ul style="list-style-type: none"> <li>• Supply voltage / 3 / rated value</li> <li>• Type of voltage / 3 / of the supply voltage</li> </ul>	88 ... 300 V DC
<b>Supply voltage / 4 / Rated value</b>	
<ul style="list-style-type: none"> <li>• Supply voltage / 4 / rated value</li> <li>• Type of voltage / 4 / of the supply voltage</li> </ul>	85 ... 264 V AC
Product component / fusing at power supply input	Yes
Power loss [W]	
<ul style="list-style-type: none"> <li>• maximum</li> </ul>	3 W

Permitted ambient conditions	
Ambient temperature	
<ul style="list-style-type: none"> <li>• during operation</li> <li>• during storage</li> <li>• during transport</li> <li>• Note</li> </ul>	-40 ... +85 °C -40 ... +85 °C -40 ... +85 °C A maximum operating temperature of +85 °C is permissible for a duration of 16 hours
Relative humidity / at 25 °C / without condensation / during operation / maximum	95 %
Operating condition / fanless operation	Yes
Protection class IP	IP30

Design, dimensions and weight	
Design	compact
Width	62.2 mm
Height	109 mm
Depth	92.8 mm
Net weight	0.68 kg
Product feature / conformal coating	optional
Material / of the enclosure	21 AWG galvanized steel enclosure
Mounting type	
<ul style="list-style-type: none"> <li>• 35 mm DIN rail mounting</li> <li>• S7-300 rail mounting</li> <li>• 19-inch installation</li> <li>• wall mounting</li> </ul>	Yes No No Yes

Product properties, functions, components / general	
Product component / Integrated / Ethernet switch	No
Product function	
<ul style="list-style-type: none"> <li>• DNP 3.0 to DNP conversion via UDP/TCP</li> <li>• Modbus RTU to Modbus TCP conversion</li> <li>• RAW socket mode for any serial protocols</li> </ul>	No No No

Protocol / is supported	
• DNP3	No
• GVRP	No
• HTTP	No
• Modbus TCP	No
• TFTP	No

### Product functions / management, configuration

Product function	
• CLI	No
• RMON	No
• web-based management	No
Protocol / is supported / Telnet	No

### Product functions / Diagnosis

Protocol / is supported	
• SNMP v1	No
• SNMP v3	No
Product function	
• MIB support	No

### Product functions / VLAN

Product function / VLAN - port based	No
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### Product functions / DHCP

Product function	
• DHCP client	No
• DHCP Option 82	No

### Product functions / Redundancy

Product function	
• redundancy procedure MSTP	No
• redundancy procedure RSTP	No
• eRSTP	No
Protocol / is supported	
• MSTP	No
• RSTP	No

### Product functions / Security

Product function	
• IEEE 802.1x (radius)	No
Protocol / is supported	
• SSL	No

### Product functions / Time

Protocol / is supported	
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- NTP
- SNTTP

No  
No

## Standards, specifications, approvals

Standard	
<ul style="list-style-type: none"> <li>• for EMC</li> <li>• for safety / from CSA and UL</li> <li>• for emitted interference</li> <li>• for interference immunity</li> </ul>	<p>FCC Part 15 (Class A), EN55022 (CISPR22 Class A)</p> <p>UL 60950-1, CSA C22.2 no. 60950-7</p> <p>EN 61000-6-4 (Class A)</p> <p>EN 61000-6-2</p>
Laser protection class	Complies with 21 CFR Chapter 1, Subchapter J
Certificate of suitability	EN 61000-6-2, EN 61000-6-10
<ul style="list-style-type: none"> <li>• relating to NEMA</li> <li>• CE marking</li> <li>• C-Tick</li> <li>• IEC 61850-3</li> <li>• IEEE 1613</li> </ul>	<p>TS 2</p> <p>Yes</p> <p>No</p> <p>Yes</p> <p>Yes</p>

## Further Information / Internet Links

Internet-Link	
<ul style="list-style-type: none"> <li>• to website: Industry Mall/RUGGEDCOM selector</li> <li>• to website: Siemens RUGGEDCOM</li> <li>• to website: Selector for cables and connectors</li> <li>• to website: Industrial communication</li> <li>• to website: Industry Mall</li> <li>• to website: Information and Download Center</li> <li>• to website: Image database</li> <li>• to website: CAx Download Manager</li> <li>• to website: Industry Online Support</li> </ul>	<p><a href="http://ruggedcom-selector.automation.siemens.com">http://ruggedcom-selector.automation.siemens.com</a></p> <p><a href="http://siemens.com/ruggedcom">http://siemens.com/ruggedcom</a></p> <p><a href="http://www.siemens.com/snst">http://www.siemens.com/snst</a></p> <p><a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a></p> <p><a href="http://www.siemens.com/industrial-controls/mall">http://www.siemens.com/industrial-controls/mall</a></p> <p><a href="http://www.siemens.com/industry/infocenter">http://www.siemens.com/industry/infocenter</a></p> <p><a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a></p> <p><a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a></p> <p><a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a></p>

## Security information

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Security information

Siemens provides products and solutions with industrial security functions that support the secure operation of plants, solutions, machines, equipment and/or networks. They are important components in a holistic industrial security concept. With this in mind, Siemens' products and solutions undergo continuous development. Siemens recommends strongly that you regularly check for product updates. For the secure operation of Siemens products and solutions, it is necessary to take suitable preventive action (e.g. cell protection concept) and integrate each component into a holistic, state-of-the-art industrial security concept. Third-party products that may be in use should also be considered. For more information about industrial security, visit <http://www.siemens.com/industrialsecurity>. To stay informed about product updates as they occur, sign up for a product-specific newsletter. For more information, visit <http://support.automation.siemens.com>. (V3.4)

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