

Technical Data

**Product-type designation** RUGGEDCOM RMC20

**Product description** **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.

**Transmission rate**

Transfer rate	
<ul style="list-style-type: none"> <li>in accordance with RS 232</li> </ul>	300...115200 bit/s
<ul style="list-style-type: none"> <li>in accordance with RS 422/485</li> </ul>	300...115200 bit/s

**Interfaces**

Number of electrical connections	
<ul style="list-style-type: none"> <li>for network components and terminal equipment</li> </ul>	
<ul style="list-style-type: none"> <li>maximum</li> </ul>	1
<ul style="list-style-type: none"> <li>for serial interfaces / in accordance with 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 power supply</li> </ul>	0
Design of electrical connection	
<ul style="list-style-type: none"> <li>for network components and 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 connections / for network components or terminal equipment / maximum	1
Number of optical connections / for fiber-optic cables	

<ul style="list-style-type: none"> <li>in serial operation</li> </ul>	1
Design of optical interface / for optical waveguide	
<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	2...2 km
<b>Supply voltage, current consumption, power loss</b>	
product options / wide range power supply	Yes
<b>Type / 1 / of supply voltage</b>	DC
Supply voltage / 1	
<ul style="list-style-type: none"> <li>rated value</li> </ul>	24 V
<ul style="list-style-type: none"> <li>rated value</li> </ul>	18...36 V
<b>Type / 2 / of supply voltage</b>	DC
Supply voltage / 2	
<ul style="list-style-type: none"> <li>rated value</li> </ul>	48 V
<ul style="list-style-type: none"> <li>rated value</li> </ul>	36...59 V
<b>Type / 3 / of supply voltage</b>	DC
Supply voltage / 3	
<ul style="list-style-type: none"> <li>nominal value</li> </ul>	110 V
<ul style="list-style-type: none"> <li>rated value</li> </ul>	88...300 V
<b>Type / 4 / of supply voltage</b>	AC
Supply voltage / 4	
<ul style="list-style-type: none"> <li>rated value</li> </ul>	85...265 V
Product component / fusing at power supply input	Yes
Power loss	
<ul style="list-style-type: none"> <li>maximum</li> </ul>	2 W
<b>Permitted ambient conditions</b>	
Ambient temperature	
<ul style="list-style-type: none"> <li>during operating</li> </ul>	-40...+85 °C
<ul style="list-style-type: none"> <li>during storage</li> </ul>	-40...+85 °C
<ul style="list-style-type: none"> <li>during transport</li> </ul>	-40...+85 °C
<ul style="list-style-type: none"> <li>Comment</li> </ul>	A maximum operating temperature of +85 °C is permissible for a duration of 16 hours
Relative humidity / at 25 °C / without condensation / during operating / maximum	95 %
Coating	conformal coating optional
operating condition / fanless operation	Yes
Protection class IP	IP40
<b>Design, dimensions and weight</b>	
Design	compact
Width	58 mm ( 2.28 in )
Height	109 mm ( 4.29 in )
Depth	94 mm ( 3.7 in )
Net weight	0.68 kg
Material / of the enclosure	21 AWG galvanized steel enclosure

Mounting type	
• 35 mm DIN rail mounting	Yes
• S7-300 rail mounting	No
• 19-inch installation	No
• wall mounting	Yes
product component part / integrated / Ethernet switch	No
product function	
• DNP 3.0 to DNP conversion via UDP/TCP	No
• Modbus RTU to Modbus TCP conversion	No
• RAW socket mode for any serial protocols	No
Protocol / is supported	
• DNP3	No
• GVRP	No
• HTTP	No
• Modbus TCP	No
• TFTP	No
Product function / CLI	No
Product function / RMON	No
Product function / web-based management	No
Protocol / is supported / Telnet	No
Product function / MIB support	No
Protocol / is supported	
• SNMP v1	No
• SNMP v3	No
Product function / VLAN - port based	No
Product function	
• DHCP client	No
• DHCP Option 82	No
product function	
• redundancy procedure MSTP	No
• redundancy procedure RSTP	No
• eRSTP	No
Protocol / is supported	
• MSTP	No
• RSTP	No
Product function / IEEE 802.1x(radius)	No
Protocol / is supported / SSL	No
Protocol / is supported	
• NTP	No
• SNTP	No
<b>Standards, specifications, approvals</b>	
Standard	
	FCC Part 15 (Class A), EN55022

• for EMC	(CISPR22 Class A)
• for safety / of CSA and UL	UL 60950-1, CSA C22.2 no. 60950-7
• for hazardous area / of CSA and UL	Hazardous Locations: Class 1 Division 2
• for emitted interference	EN 61000-6-4 (Class A)
• for interference immunity	EN 61000-6-2
Laser protection class	Complies with 21 CFR Chapter 1, Subchapter J
Verification of suitability	EN 61000-6-2, EN 61000-6-10
Verification of suitability	
• regarding NEMA	TS 2
• CE mark	Yes
• C-Tick	No
• IEC 61850-3	Yes
<b>Further Information / Internet Links</b>	
Internet-Link	
• to website: Industry Mall/RUGGEDCOM-Selector	<a href="http://ruggedcom-selector.automation.siemens.com">http://ruggedcom-selector.automation.siemens.com</a>
• to website: Industry Mall	<a href="http://www.siemens.com/industrial-controls/mall">http://www.siemens.com/industrial-controls/mall</a>
• to website: Selector for cables and connectors	<a href="http://www.siemens.com/snst">http://www.siemens.com/snst</a>
• to website: Industrial communication	<a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a>
• to website: Information and Download Center	<a href="http://www.siemens.com/automation/net/catalog">http://www.siemens.com/automation/net/catalog</a>
• to website: Image database	<a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a>
• to website: CAx Download Manager	<a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a>
• to website: Industry Online Support	<a href="http://support.automation.siemens.com">http://support.automation.siemens.com</a>
<b>letzte Änderung:</b>	Jul 14, 2014