

## Data sheet

6GK6002-0AC03-0AA1

### 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

- for network components or terminal equipment / maximum
- for serial interfaces / acc. to RS 232/RS 422/RS 485 / maximum
- for power supply
- for redundant voltage supply

1

2

1

0

Type of electrical connection

- for network components or terminal equipment
- for power supply

7-pole terminal block

3-pole terminal block

Number of optical interfaces

- for network components or terminal equipment / maximum
- for fiber optic cable / in serial operation

1

1

Design of the optical interface / for fiber optic cable

- at 10 Mbit/s

ST-Port (BFOC-Port)

Range / at the optical interface / depending on the optical fiber used

- minimum
- maximum

0 km

5 km

### Supply voltage, current consumption, power loss

product options / wide range power supply

Yes

Supply voltage / 1 / Rated value

24 V

- Supply voltage / 1 / rated value

18 ... 36 V

- Type of voltage / 1 / of the supply voltage

DC

Supply voltage / 2 / Rated value

48 V

|                                                  |              |
|--------------------------------------------------|--------------|
| • Supply voltage / 2 / rated value               | 36 ... 59 V  |
| • Type of voltage / 2 / of the supply voltage    | DC           |
| <b>Supply voltage / 3 / Rated value</b>          | 110 V        |
| • Supply voltage / 3 / rated value               | 88 ... 300 V |
| • Type of voltage / 3 / of the supply voltage    | DC           |
| <b>Supply voltage / 4 / Rated value</b>          |              |
| • Supply voltage / 4 / rated value               | 85 ... 264 V |
| • Type of voltage / 4 / of the supply voltage    | AC           |
| Product component / fusing at power supply input | Yes          |
| Power loss [W]                                   |              |
| • maximum                                        | 3 W          |

#### Permitted ambient conditions

|                                                                                  |                                                                                     |
|----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Ambient temperature                                                              |                                                                                     |
| • during operation                                                               | -40 ... +85 °C                                                                      |
| • during storage                                                                 | -40 ... +85 °C                                                                      |
| • during transport                                                               | -40 ... +85 °C                                                                      |
| • Note                                                                           | 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                       |                                   |
| • 35 mm DIN rail mounting           | Yes                               |
| • S7-300 rail mounting              | No                                |
| • 19-inch installation              | No                                |
| • wall mounting                     | Yes                               |

#### Product properties, functions, components / general

|                                                  |    |
|--------------------------------------------------|----|
| Product component / 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 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 |
|--------------------------------------|----|

#### 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 |  |
|-------------------------|--|

- NTP
- SNTP

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

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
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| 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

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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