

Data sheet

6GK6003-0AC12-0AA1

Product type designation

Product description

RUGGEDCOM RMC30NC

2-Port Serial-to-Ethernet Converter, 56-bit Encryption

RUGGEDCOM RMC30NC 2-port Serial-to- Ethernet server 56-bit Encryption;

Transmission rate

Transfer rate

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

10 Mbit/s
300 bit/s ... 115200 bit/s
300 bit/s ... 115200 bit/s

Interfaces

Number of electrical/optical connections

- for network components or terminal equipment / maximum

2

Number of electrical connections

- for network components or terminal equipment
- 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

1

2

1

0

Type of electrical connection

- for network components or terminal equipment
- for power supply

RJ45-Port, 7-pole terminal block
3-pole terminal block

Number of optical interfaces

- for fiber optic cable / at 10 Mbit/s

1

Design of the optical interface / for fiber optic cable

- at 10 Mbit/s

ST-Port (BFOC-Port)

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
- Type of voltage / 1 / of the supply voltage

18 ... 36 V

DC

Supply voltage / 2 / Rated value

48 V

- Supply voltage / 2 / rated value
- Type of voltage / 2 / of the supply voltage

36 ... 59 V

DC

Supply voltage / 3 / Rated value

110 V

- Supply voltage / 3 / rated value

88 ... 300 V

• Type of voltage / 3 / of the supply voltage	DC
Supply voltage / 4 / Rated value	
• 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	
• Modbus RTU to Modbus TCP conversion	Yes
Protocol / is supported	
• DNP3	Yes
• GVRP	No
• HTTP	Yes
• Modbus TCP	Yes
• TFTP	Yes

Operating mode	
• multi-point	Yes
• Point-to-point	Yes
Product component / RS 485 terminating resistor	Yes
Product function	
• support several modbus masters	Yes
Protocol / is supported	
• PPP	Yes

Product functions / management, configuration

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

Product functions / Diagnosis

Protocol / is supported	
• SNMP v1	Yes
• SNMP v2c	Yes
• SNMP v3	Yes
Product function	
• MIB support	Yes

Product functions / VLAN

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

Product function	
• DHCP client	Yes
• 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
• RADIUS client	Yes
Protocol / is supported	

• SSL	Yes
• RADIUS	Yes
• TACACS+	Yes
Key length	
• with SSL	56 bit
• with RSA	1024 bit

Product functions / Time

Protocol / is supported	
• NTP	No
• SNTP	Yes
Product component	
• Hardware real-time clock	Yes

Standards, specifications, approvals

Standard	
• for EMC	FCC Part 15 (Class A), EN55022 (CISPR22 Class A)
• for safety / from CSA and UL	UL 60950-1, CSA C22.2 no. 60950-7
• 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
Certificate of suitability	EN 61000-6-2, EN 61000-6-10
• relating to NEMA	TS 2
• CE marking	Yes
• C-Tick	No
• IEC 61850-3	Yes
• IEEE 1613	Yes
• product conformity / acc. to IEEE 802.3-10BaseT	Yes
• product conformity / acc. to IEEE 802.3x-Flow Control	Yes
• product conformity / RFC768-UDP	Yes
• product conformity / RFC783-TFTP	Yes
• product conformity / RFC791-IP	Yes
• product conformity / RFC792-ICMP	Yes
• product conformity / RFC793-TCP	Yes
• product conformity / RFC826-ARP	Yes
• product conformity / RFC854-Telnet	Yes
• product conformity / RFC894-IP over Ethernet	Yes
• product conformity / RFC1519-CIDR	Yes
• product conformity / RFC2030-SNTP	Yes
• product conformity / RFC2068-HTTP	Yes
• product conformity / RFC1541-DHCP (client)	Yes

- Product function / Transmission of serial data via IP-Networks

Yes

Further Information / Internet Links

Internet-Link

- to website: Industry Mall/RUGGEDCOM selector
- to website: Siemens RUGGEDCOM
- to website: Selector for cables and connectors
- to website: Industrial communication
- to website: Industry Mall
- to website: Information and Download Center
- to website: Image database
- to website: CAx Download Manager
- to website: Industry Online Support

<http://ruggedcom-selector.automation.siemens.com>

<http://siemens.com/ruggedcom>

<http://www.siemens.com/snst>

<http://www.siemens.com/simatic-net>

<http://www.siemens.com/industrial-controls/mall>

<http://www.siemens.com/industry/infocenter>

<http://automation.siemens.com/bilddb>

<http://www.siemens.com/cax>

<https://support.industry.siemens.com>

Security information

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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