

6GK6040-1AT2.-.... RUGGEDCOM RS401

Technical Data

Product-type designation	RUGGEDCOM RS401
Product description	<p>serial device server with an integrated fully managed Ethernet switch, 128-bit Encryption, 4 port serial server, 4 port managed Ethernet switch & an optional V.90 modem</p> <p>THE RUGGEDCOM RS401 IS AN INDUSTRIALLY HARDENED, SERIAL DEVICE SERVER WITH AN INTEGRATED, FULLY MANAGED, ETHERNET SWITCH, DESIGNED TO OPERATE RELIABLY IN ELECTRICALLY HARSH AND CLIMATICALLY DEMANDING ENVIRONMENTS. 128-BIT ENCRYPTION; COMPACT DESIGN, 4 PORT SERIAL SERVER, 4 PORT MANAGED ETHERNET SWITCH & AN OPTIONAL V.90 MODEM</p>
	
Transmission rate	
Transfer rate	
<ul style="list-style-type: none"> • 1 	10 Mbit/s
<ul style="list-style-type: none"> • 2 	100 Mbit/s
Transfer rate	
<ul style="list-style-type: none"> • in accordance with RS 232 	300...115200 bit/s
<ul style="list-style-type: none"> • in accordance with RS 422/485 	300...115200 bit/s
<ul style="list-style-type: none"> • according to V.90 	56000 bit/s
Interfaces	
Number of electrical/optical connections / for network components or terminal equipment / maximum	4
Number of electrical connections	
<ul style="list-style-type: none"> • for network components and terminal equipment 	4
<ul style="list-style-type: none"> • maximum 	4
<ul style="list-style-type: none"> • for serial interfaces / in accordance with RS 232/RS 422/RS 485 / maximum 	4
<ul style="list-style-type: none"> • for modem / maximum 	1

• for signaling contact	1
• for power supply	1
• for redundant power supply	0
Design of electrical connection	
• for network components and terminal equipment	RJ45-Port, SUB-D 9 pin
• for signaling contact	3-pole terminal block
• for power supply	3-pole terminal block
Number of optical connections / for network components or terminal equipment / maximum	2
Number of optical connections / for fiber-optic cables	
• at 10 Mbit/s	4
• at 100 Mbit/s	4
Design of optical interface / for optical waveguide	
• at 10 Mbit/s	ST-Port (BFOC-Port)
• at 100 Mbit/s	ST-/SC-/MTRJ-/LC-Port
Range / at the optical interface / depending on the optical fiber used	2...90 km
Signal-Inputs/outputs	
Relay design	Form-C contact relay
Operating voltage / of signaling contacts / at AC / rated value	120 V
Operating current / of signaling contacts / at AC / maximum	0.4 A
Operating voltage / of signaling contacts / at DC / rated value	30 V
Operating current / of signaling contacts / at DC / maximum	2 A
Supply voltage, current consumption, power loss	
product options / wide range power supply	Yes
Type of voltage / 1 / of the supply voltage	DC
Supply voltage / 1	
• rated value	24 V
• rated value	18...36 V
Type of voltage / 2 / of the supply voltage	DC
Supply voltage / 2	
• rated value	48 V
• rated value	36...59 V
Type of voltage / 3 / of the supply voltage	DC
Supply voltage / 3	
• nominal value	110 V
• rated value	88...300 V
Type of voltage / 4 / of the supply voltage	AC
Supply voltage / 4	
• rated value	

Product component / fusing at power supply input	Yes
Power loss	
<ul style="list-style-type: none"> maximum 	8 W
Permitted ambient conditions	
Ambient temperature	
<ul style="list-style-type: none"> during operating 	-40...+85 °C
<ul style="list-style-type: none"> during storage 	-40...+85 °C
<ul style="list-style-type: none"> during transport 	-40...+85 °C
<ul style="list-style-type: none"> Comment 	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
Design, dimensions and weight	
Design	compact
Width	202 mm (7.95 in)
Height	44 mm (1.73 in)
Depth	291 mm (11.46 in)
Net weight	2.2 kg
Material / of the enclosure	18 AWG galvanized steel enclosure
Type of mounting	
<ul style="list-style-type: none"> 35 mm DIN rail mounting 	Yes
<ul style="list-style-type: none"> S7-300 rail mounting 	No
<ul style="list-style-type: none"> Installation 19 inch 	No
<ul style="list-style-type: none"> wall mounting 	Yes
product component part / integrated / Ethernet switch	Yes
product function	
<ul style="list-style-type: none"> DNP 3.0 to DNP conversion via UDP/TCP 	No
<ul style="list-style-type: none"> Modbus RTU to Modbus TCP conversion 	Yes
<ul style="list-style-type: none"> RAW socket mode for any serial protocols 	No
Protocol / is supported	
<ul style="list-style-type: none"> DNP3 	Yes
<ul style="list-style-type: none"> GVRP 	Yes
<ul style="list-style-type: none"> HTTP 	Yes
<ul style="list-style-type: none"> Modbus TCP 	Yes
<ul style="list-style-type: none"> TFTP 	Yes
Product function / CLI	Yes
Product function / RMON	Yes
Product function / web-based management	Yes
Protocol / is supported / Telnet	Yes
Product function / MIB support	Yes
Protocol / is supported	

• SNMP v1	Yes
• SNMP v3	Yes
product function / for MIB-support	
• by BRIDGE-MIB	RFC1493
• by IF-MIB	RFC2863
• by RMON-MIB	RFC2819
• by RSTP-MIB	draft-ietf-bridge-bridgemib-smiv2-03
• by SNMPv2-MIB	RFC1907
• by SNMPv2-SMI	RFC2578
• by SNMPv2-TC	RFC2579
• by TCP-MIB	RFC2012
• by UDP-MIB	RFC2013
Number of VLANs / maximum	255
Product function / VLAN - port based	Yes
Product function	
• DHCP Option 82	No
product function	
• redundancy procedure MSTP	No
• RSTP redundancy protocol	Yes
• eRSTP	Yes
Protocol / is supported	
• MSTP	No
• RSTP	Yes
Product function / IEEE 802.1x(radius)	No
Protocol / is supported / SSL	Yes
Protocol / is supported	
• NTP	No
• SNTP	Yes
Standards, specifications, approvals	
Standard	
• for EMC	FCC Part 15 (Class A), EN55022 (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
- IEC 61850-3

No
Yes

Further Information / Internet Links

Internet link

- | | |
|--|---|
| • to website | |
| • Industry Mall/RUGGEDCOM Selector | http://ruggedcom-selector.automation.siemens.com |
| • Industry Mall | http://www.siemens.com/industrial-controls/mall |
| • selection instrument cables and connectors | http://www.siemens.com/snst |
| • CAx-Download-Manager | http://www.siemens.com/cax |
| • industrial communication | http://www.siemens.com/simatic-net |
| • Information und Download Center | http://www.siemens.com/automation/net/catalog |
| • image database | http://automation.siemens.com/bilddb |
| • Industry Online Support | http://support.automation.siemens.com |

letzte Änderung:

Feb 24, 2014