

6GK6090-0AD2.-.... RS900L

## Technical Data

**Product-type designation****RUGGEDCOM RS900L**

RUGGEDCOM RS900L IS AN 8 PORT INDUSTRIALLY HARDENED, FULLY MANAGED ETHERNET SWITCH SUPPORTING EOVDL ALLOWING UP TO 5KM LAN SEGMENTS OVER TELEPHONE GRADE CABLE AT UP TO 35MBPS. 128-BIT ENCRYPTION; 6 FAST ETHERNET PORTS (10/100BASETX); OPTIONAL: ADDITIONAL 2 FAST ETHERNET PORTS (10/100BASETX OR 100BASEFX)

**Transmission rate**

Transfer rate / 1 / for Industrial Ethernet	10 Mbit/s
Transfer rate / 2 / for Industrial Ethernet	100 Mbit/s

**Interfaces**

Number of electrical/optical connections / for network components or terminal equipment / maximum	8
<ul style="list-style-type: none"> <li>remark</li> </ul>	6 fast Ethernet ports (10/100BaseTX)
Number of electrical connections	
<ul style="list-style-type: none"> <li>for network components and terminal equipment</li> <li>maximum</li> </ul>	8
Number of optical connections / for network components or terminal equipment / maximum	8
Range / at the optical interface / depending on the optical fiber used	20...90 km
Design of the electrical connection / for power supply	terminal block

**Signal-Inputs/outputs**

Relay design	Form-C contact relay (CO, change over)
operating current / of the signal contact / at DC / at 30 V / maximum	1 A

**Supply voltage, current consumption, power loss**

product options / wide range power supply	Yes
<b>Type of voltage / 1 / of the supply voltage</b>	DC
Supply voltage / 1	
<ul style="list-style-type: none"> <li>rated value</li> <li>rated value</li> </ul>	24 V
	10...36 V
Current consumed / 1 / at rated value of supply voltage / max.	0.4 A

<b>Type of voltage / 2 / of the 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...72 V
Current consumed / 2 / at rated value of supply voltage / max.	0.2 A
<b>Type of voltage / 3 / of the supply voltage</b>	DC
Supply voltage / 3	
<ul style="list-style-type: none"> <li>• rated value</li> </ul>	88...300 V
<b>Type of voltage / 4 / of the supply voltage</b>	AC
Supply voltage / 4	
<ul style="list-style-type: none"> <li>• rated value</li> </ul>	85...264 V
Active power loss / maximum	10 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>• Comment</li> </ul>	A maximum operating temperature of +85 °C is permissible for a duration of 16 hours
Coating	conformal coating optional
operating condition / fanless operation	Yes
Protection class IP	IP40
Width	66 mm ( 2.6 in )
Height	188 mm ( 7.4 in )
Depth	127 mm ( 5 in )
Net weight	1220 g
Material / of the enclosure	20 AWG galvanized steel enclosure
Type of mounting	
<ul style="list-style-type: none"> <li>• 35 mm DIN rail mounting</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• wall mounting</li> </ul>	Yes
<b>Product properties, functions, components / general</b>	
product function	
<ul style="list-style-type: none"> <li>• switch-managed</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• RAW socket mode for any serial protocols</li> </ul>	No
<ul style="list-style-type: none"> <li>• automatic selection of the fastest transmission rate</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• changeover master or slave with software</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• Modbus RTU to Modbus TCP conversion</li> </ul>	Yes
protocol / is supported	
<ul style="list-style-type: none"> <li>• TFTP</li> </ul>	No
<ul style="list-style-type: none"> <li>• DNP3</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• Modbus TCP</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• TIN</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• WIN</li> </ul>	Yes

• Microlok	Yes
• IGMP (snooping/querier)	Yes
number of groups / at IGMP	256
operating distance / of VDSL interface / maximum	5 km
transmission method / FDM	Yes
memory capacity	
• of message buffer / maximum	1 Mibyte
• of MAC-address table	16 Kibyte
switch-latency period	8 µs
transfer rate / of the switch	1.8 Gbit/s
number of priority channels	4
product characteristic / Switching-Methode Store & Forward	Yes
<b>Product functions / management, configuration</b>	
Product function	
• CLI	Yes
• web-based management	Yes
• RMON	Yes
• MIB support	Yes
Protocol / is supported	
• Telnet	Yes
• HTTP	Yes
• HTTPS	No
<b>Product functions / Diagnosis</b>	
Protocol / is supported	
• SNMP v1	Yes
• SNMP v2c	Yes
• SNMP v3	Yes
<b>Product functions / VLAN</b>	
Number of VLANs / maximum	255
Product function / VLAN - port based	Yes
Protocol / is supported / GVRP	No
<b>Product functions / DHCP</b>	
Product function	
• DHCP client	Yes
<b>Product functions / Redundancy</b>	
product function	
• redundancy procedure MSTP	Yes
• RSTP redundancy protocol	Yes
• eRSTP	Yes
Protocol / is supported / RSTP	Yes
<b>Product functions / Security</b>	
Product function / IEEE 802.1x (radius)	Yes

protocol / is supported	
• SSH	Yes
• SSL	Yes
• TACACS+	Yes
key length	
• at RSA	1024 bit
product function / port-rate-limiting	Yes
adjustable port-rate-limitation	128 kbit/s...8 Mbit/s
<b>Product functions / Time</b>	
Protocol / is supported	
• SNTP	Yes
<b>Standards, specifications, approvals</b>	
Standard	
• for EMC	FCC Part 15 (Class A), EN55022 (CISPR22 Class A)
• for safety / of CSA and UL	cCSAus (CSA C22.2 No. 60950, UL 60950, EN60950)
Laser protection class	21 CFR Chapter 1, Subchapter J
Verification of suitability	
• CE mark	Yes
• regarding NEMA	TS 2
• IEC 61850-3	Yes
• IEEE 1613	Yes
<b>Further Information / Internet Links</b>	
Internet-link	
• onto website	
• Industry Mall/RuggedCom Selector	<a href="http://ruggedcom-selector.automation.siemens.com">http://ruggedcom-selector.automation.siemens.com</a>
• Industry Mall	<a href="http://www.siemens.com/industrial-controls/mall">http://www.siemens.com/industrial-controls/mall</a>
• selection instrument cables and connectors	<a href="http://www.siemens.com/snst">http://www.siemens.com/snst</a>
• CAx Download Manager	<a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a>
• industrial communication	<a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a>
• Information and Download Center	<a href="http://www.siemens.com/automation/net/catalog">http://www.siemens.com/automation/net/catalog</a>
• image database	<a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a>
• Industry Online Support	<a href="http://support.automation.siemens.com">http://support.automation.siemens.com</a>

letzte Änderung:

Jan 20, 2014