

6GK6092-0AD2.-.... RS920L

Technical Data

**Product-type designation**



**RUGGEDCOM RS920L**

RUGGEDCOM RS920L IS AN INDUSTRIALLY HARDENED SERIAL DEVICE SERVER AND MANAGED ETHERNET SWITCH SUPPORTING EOVDL. 128-BIT ENCRYPTION; UP TO 2 EOVDL INTERFACES AND 2 SERIAL PORTS (RS485/RS422/RS232)

**Transmission rate**

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

**Interfaces**

Number of electrical connections	
<ul style="list-style-type: none"> <li>for serial interfaces / in accordance with RS 232/RS 422/RS 485 / maximum</li> </ul>	2
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> </ul>	24 V
<ul style="list-style-type: none"> <li>rated value</li> </ul>	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>• transmission of serial data via IP-Networks</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• RAW socket mode for any serial protocols</li> </ul>	Yes
<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
<ul style="list-style-type: none"> <li>• Microlok</li> </ul>	Yes

<ul style="list-style-type: none"> <li>IGMP (snooping/querier)</li> </ul>	Yes
number of groups / at IGMP	256
transmission method / FDM	Yes
memory capacity	
<ul style="list-style-type: none"> <li>of message buffer / maximum</li> </ul>	1 Mibyte
<ul style="list-style-type: none"> <li>of MAC-address table</li> </ul>	16 Kibyte
switch-latency period	8 µs
transfer rate / of the switch	1.8 Gbit/s
number of priority channels	4
product characteristic / Switching-Method Store & Forward	Yes
<b>Product functions / management, configuration</b>	
Product function	
<ul style="list-style-type: none"> <li>CLI</li> </ul>	Yes
<ul style="list-style-type: none"> <li>web-based management</li> </ul>	Yes
<ul style="list-style-type: none"> <li>RMON</li> </ul>	Yes
<ul style="list-style-type: none"> <li>MIB support</li> </ul>	Yes
Protocol / is supported	
<ul style="list-style-type: none"> <li>Telnet</li> </ul>	Yes
<ul style="list-style-type: none"> <li>HTTP</li> </ul>	Yes
<ul style="list-style-type: none"> <li>HTTPS</li> </ul>	No
<b>Product functions / Diagnosis</b>	
Protocol / is supported	
<ul style="list-style-type: none"> <li>SNMP v1</li> </ul>	Yes
<ul style="list-style-type: none"> <li>SNMP v2c</li> </ul>	Yes
<ul style="list-style-type: none"> <li>SNMP v3</li> </ul>	Yes
<b>Product functions / VLAN</b>	
Number of VLANs / maximum	4094
Product function / VLAN - port based	Yes
Protocol / is supported / GVRP	Yes
<b>Product functions / DHCP</b>	
Product function	
<ul style="list-style-type: none"> <li>DHCP client</li> </ul>	Yes
<b>Product functions / Redundancy</b>	
product function	
<ul style="list-style-type: none"> <li>redundancy procedure MSTP</li> </ul>	Yes
<ul style="list-style-type: none"> <li>RSTP redundancy protocol</li> </ul>	Yes
<ul style="list-style-type: none"> <li>eRSTP</li> </ul>	Yes
Protocol / is supported / RSTP	Yes
<b>Product functions / Security</b>	
Product function / IEEE 802.1x (radius)	Yes
protocol / is supported	
<ul style="list-style-type: none"> <li>SSH</li> </ul>	Yes

<ul style="list-style-type: none"> <li>• SSL</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• TACACS+</li> </ul>	Yes
key length	
<ul style="list-style-type: none"> <li>• at RSA</li> </ul>	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	
<ul style="list-style-type: none"> <li>• SNMP</li> </ul>	Yes
<b>Standards, specifications, approvals</b>	
Standard	
<ul style="list-style-type: none"> <li>• for EMC</li> </ul>	FCC Part 15 (Class A), EN55022 (CISPR22 Class A)
<ul style="list-style-type: none"> <li>• for safety / of CSA and UL</li> </ul>	cCSAus (CSA C22.2 No. 60950, UL 60950, EN60950)
Laser protection class	21 CFR Chapter 1, Subchapter J
Verification of suitability	
<ul style="list-style-type: none"> <li>• CE mark</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• regarding NEMA</li> </ul>	TS 2
<ul style="list-style-type: none"> <li>• IEC 61850-3</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• IEEE 1613</li> </ul>	Yes
<b>Further Information / Internet Links</b>	
Internet-link	
<ul style="list-style-type: none"> <li>• onto website</li> </ul>	
<ul style="list-style-type: none"> <li>• Industry Mall/RuggedCom Selector</li> </ul>	<a href="http://ruggedcom-selector.automation.siemens.com">http://ruggedcom-selector.automation.siemens.com</a>
<ul style="list-style-type: none"> <li>• Industry Mall</li> </ul>	<a href="http://www.siemens.com/industrial-controls/mall">http://www.siemens.com/industrial-controls/mall</a>
<ul style="list-style-type: none"> <li>• selection instrument cables and connectors</li> </ul>	<a href="http://www.siemens.com/snst">http://www.siemens.com/snst</a>
<ul style="list-style-type: none"> <li>• CAx Download Manager</li> </ul>	<a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a>
<ul style="list-style-type: none"> <li>• industrial communication</li> </ul>	<a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a>
<ul style="list-style-type: none"> <li>• Information and Download Center</li> </ul>	<a href="http://www.siemens.com/automation/net/catalog">http://www.siemens.com/automation/net/catalog</a>
<ul style="list-style-type: none"> <li>• image database</li> </ul>	<a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a>
<ul style="list-style-type: none"> <li>• Industry Online Support</li> </ul>	<a href="http://support.automation.siemens.com">http://support.automation.siemens.com</a>
<b>letzte Änderung:</b>	Jan 20, 2014