

# SIEMENS

## Data sheet

6GK6095-0GS2-....

### Product type designation

### RUGGEDCOM RS950G

RUGGEDCOM RS950G IS AN IEC 62439-3 PRP HSR REDUNDANCY BOX (REDBOX). 128-BIT ENCRYPTION; TWO IEC 62439 HSR/ PRP ETHERNET PORTS ONE ACCESS PORT FOR STANDARD IEEE 802.3 ETHERNET DEVICES ALL ETHERNET PORTS SUPPORT COPPER OR FIBER MEDIA SFP PLUGGABLE FIBER TRANSCEIVER WITH 100FX OR 1000LX/SX TRIPLE SPEED COPPER 10/100/1000 TX (DISABLED WHEN SFP PRESENT) RS232 CONSOLE PORT LED STATUS INDICATORS



Figure similar

### Transmission rate

Transfer rate	10 Mbit/s, 100 Mbit/s, 1000 Mbit/s
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### Interfaces

Number of electrical/optical connections	3; 2 Port for HSR or PRP network, 1 Port for end device
<ul style="list-style-type: none"> <li>for network components or terminal equipment / maximum</li> <li>for gigabit Ethernet / maximum</li> </ul>	3
Number of electrical connections	3
<ul style="list-style-type: none"> <li>for network components or terminal equipment / maximum</li> <li>for gigabit Ethernet / maximum</li> </ul>	3
Number of optical interfaces	3
<ul style="list-style-type: none"> <li>for network components or terminal equipment / maximum</li> </ul>	3
Range / at the optical interface / depending on the optical fiber used	2 ... 90 km
<ul style="list-style-type: none"> <li>with gigabit</li> </ul>	0.5 ... 70 km

### Interfaces / others

Number of electrical connections	
<ul style="list-style-type: none"> <li>• for operator console</li> <li>• for management purposes</li> </ul>	0 0
Type of electrical connection	
<ul style="list-style-type: none"> <li>• for operator console</li> <li>• for signaling contact</li> <li>• for power supply</li> </ul>	RS232 3-pole terminal block, screwable 5-pole terminal block, screwable

### Signal-Inputs/outputs

Relay design	Form-C contact relay (SP CO)
Type of relay output	Changeover contact
Operating voltage / of the signaling contacts	
<ul style="list-style-type: none"> <li>• at AC / maximum</li> <li>• at DC / maximum</li> </ul>	250 V 125 V
Operating current / of the signaling contacts	
<ul style="list-style-type: none"> <li>• at AC / at 250 V / maximum</li> <li>• at DC / at 30 V / maximum</li> </ul>	2 A 2 A

### Supply voltage, current consumption, power loss

product options / wide range power supply	Yes
<b>Supply voltage / 1 / Rated value</b>	24 V
<ul style="list-style-type: none"> <li>• Supply voltage / 1 / rated value</li> <li>• Type of voltage / 1 / of the supply voltage</li> <li>• Consumed current / 1 / at rated supply voltage / maximum</li> </ul>	9 ... 36 V DC 1.2 A
<b>Supply voltage / 2 / Rated value</b>	48 V
<ul style="list-style-type: none"> <li>• Supply voltage / 2 / rated value</li> <li>• Type of voltage / 2 / of the supply voltage</li> <li>• Consumed current / 2 / at rated supply voltage / maximum</li> </ul>	36 ... 72 V DC 0.6 A
<b>Supply voltage / 3 / Rated value</b>	
<ul style="list-style-type: none"> <li>• Supply voltage / 3 / rated value</li> <li>• Type of voltage / 3 / of the supply voltage</li> </ul>	88 ... 300 V DC
<b>Supply voltage / 4 / Rated value</b>	
<ul style="list-style-type: none"> <li>• Supply voltage / 4 / rated value / minimum</li> <li>• Supply voltage / 4 / rated value / maximum</li> <li>• Type of voltage / 4 / of the supply voltage</li> </ul>	85 V 264 V AC
Power loss [W]	
<ul style="list-style-type: none"> <li>• maximum</li> </ul>	10 W

### Permitted ambient conditions

Ambient temperature	
<ul style="list-style-type: none"> <li>• during operation</li> </ul>	-40 ... +85 °C

• Note	A maximum operating temperature of +85 °C is permissible for a duration of 16 hours
Operating condition / fanless operation	Yes
Coating	Conformal Coating optional
Protection class IP	IP40

### Design, dimensions and weight

Design	compact
Width	66 mm
Height	188 mm
Depth	127 mm
Net weight	1.22 kg
Material / of the enclosure	20 AWG galvanized steel enclosure
Mounting type	
• 19-inch installation	No
• 35 mm DIN rail mounting	Yes
• wall mounting	Yes

### Product properties, functions, components / general

Number of automatically learnable MAC addresses	1024
Switch latency period	1 µs
Transfer rate / of the switch	16 Gbit/s
Number of priority channels	8

### Product functions / management, configuration

Product function	
• CLI	Yes
• web-based management	Yes
• MIB support	Yes
• RMON	Yes
• switch-managed	Yes
Protocol / is supported	
• Telnet	Yes
• HTTP	Yes
• HTTPS	Yes
• TFTP	Yes
• IGMP (snooping/querier)	No
Protocol / is supported	
• SNMP v1	Yes
• SNMP v2	No
• SNMP v2c	Yes
• SNMP v3	Yes
Product function / for MIB support	
• by BRIDGE-MIB	RFC1493

- by IF-MIB
- by RMON-MIB
- by RSTP-MIB
- by SNMPv2-MIB
- by SNMPv2-SMI
- by SNMPv2-TC
- by TCP-MIB
- by UDP-MIB

RFC2863  
 RFC2819  
 draft-ietf-bridge-bridgemib-smiv2-03-RSTP-MIB  
 RFC1907  
 RFC2578  
 RFC2579  
 RFC2012  
 RFC2013

#### Product functions / DHCP

Product function	
• DHCP client	Yes
• DHCP Option 82	No
• DHCP Option 66	No
• DHCP Option 67	No

#### Product functions / Redundancy

Product function	
• High Speed Redundancy Protocol (HRP)	Yes
Product function	
• Parallel Redundancy Protocol (PRP)	Yes
• High-availability Seamless Redundancy (HSR)	Yes
Protocol / is supported	
• STP	Yes
• RSTP	Yes
• MSTP	Yes
• PRP	Yes

#### Product functions / Security

Protocol / is supported	
• RADIUS	Yes
• TACACS+	Yes
Product function / port-rate-limiting	Yes

#### Product functions / Time

Product function	
• SNTP client	Yes
• SNTP server	Yes
• IEEE 1588 v2 transparent forwarding	Yes
Protocol / is supported	
• SNTP	Yes

#### Standards, specifications, approvals

Standard	
• for EMC	FCC Part 15 (Class A), EN55022 (CISPR22 Class A)

<ul style="list-style-type: none"> <li>• for safety / from CSA and UL</li> </ul>	cCSAus (Compliant with CSA C22.2 No. 60950, UL60950, EN60950)
Laser protection class	Complies with 21 CFR chapter 1, subchapter J
Certificate of suitability	
<ul style="list-style-type: none"> <li>• CE marking</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• IEC 61850-3</li> </ul>	Yes

### Further Information / Internet Links

Internet-Link	
<ul style="list-style-type: none"> <li>• to website: 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>• to website: Siemens RUGGEDCOM</li> </ul>	<a href="http://siemens.com/ruggedcom">http://siemens.com/ruggedcom</a>
<ul style="list-style-type: none"> <li>• to website: Selector for 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>• to website: 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>• to website: Industry Mall</li> </ul>	<a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a>
<ul style="list-style-type: none"> <li>• to website: Information and Download Center</li> </ul>	<a href="http://www.siemens.com/industry/infocenter">http://www.siemens.com/industry/infocenter</a>
<ul style="list-style-type: none"> <li>• to website: Image database</li> </ul>	<a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a>
<ul style="list-style-type: none"> <li>• to website: 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>• to website: Industry Online Support</li> </ul>	<a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>

### Security information

Security information	<p>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 <a href="http://www.siemens.com/industrialsecurity">http://www.siemens.com/industrialsecurity</a>. To stay informed about product updates as they occur, sign up for a product-specific newsletter. For more information, visit <a href="http://support.automation.siemens.com">http://support.automation.siemens.com</a>. (V3.4)</p>
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