

6GK6094-0GS2.-.... RUGGEDCOM RS940G

Technical Data

Product-type designation	RUGGEDCOM RS940G
Product description	<p>8-Port Managed Gigabit Ethernet Switch, 128-bit Encryption</p> <p>RUGGEDCOM RS940G IS AN INDUSTRIALLY HARDENED, FULLY MANAGED ETHERNET SWITCH PROVIDING 6 OR 8 PORTS OF GIGABIT ETHERNET. 6 10/100/1000BASETX TRIPLE SPEED COPPER PORTS ARE STANDARD; 2 GIGABIT FIBER OR COPPER PORTS CAN BE ADDED. 128-BIT ENCRYPTION; 6-10/100/1000BASETX TRIPLE SPEED COPPER PORTS STANDARD; OPTIONAL 2 ADDITIONAL 1000LX SFP PLUGGABLE GIGABIT FIBER; 2-10/100/1000BASETX COPPER PORTS;</p>



Transmission rate	
Transfer rate / 1	10 Mbit/s
Transfer rate / 2	100 Mbit/s
Transfer rate / 3	1000 Mbit/s
Interfaces	
Number of electrical/optical connections / for network components or terminal equipment / maximum	8
• remark	6 Standard Copper Ports + alternatively 2 Copper or Fiber Ports
number of electrical/optical connections / for gigabit Ethernet / maximum	2
Number of electrical connections	
• for network components and terminal equipment	
• maximum	8
• for gigabit Ethernet / maximum	8
• for operator console	1
• for management purposes	0
Design of electrical connection	
• for operator console	RS232
• for signaling contact	3-pole terminal block, screwable
• for power supply	5-pole terminal block, screwable
Number of optical connections / for network	2

components or terminal equipment / maximum	
Range / at the optical interface / depending on the optical fiber used	2...90 km
operating distance / of optical interface / depending of used optical fiber / at gigabit	0.5...70 km
Signal-Inputs/outputs	
Relay design	Form-C contact relay (SP CO)
type of the relay output	Change-over (NO/NC)
Operating current / of signaling contacts	
<ul style="list-style-type: none"> at DC at 30 V / maximum 	1 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	
<ul style="list-style-type: none"> rated value rated value 	24 V
	10...36 V
Current consumed / 1 / at rated value of supply voltage / max.	0.4 A
Type of voltage / 2 / of the supply voltage	DC
Supply voltage / 2	
<ul style="list-style-type: none"> rated value rated value 	48 V
	36...72 V
Current consumed / 2 / at rated value of supply voltage / max.	0.2 A
Type of voltage / 3 / of the supply voltage	DC
Supply voltage / 3	
<ul style="list-style-type: none"> rated value 	88...300 V
Type of voltage / 4 / of the supply voltage	AC
Supply voltage / 4	
<ul style="list-style-type: none"> rated value 	85...264 V
Power loss	
<ul style="list-style-type: none"> maximum 	18 W
Permitted ambient conditions	
Ambient temperature	
<ul style="list-style-type: none"> during operating Comment 	-40...+85 °C
	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
Design, dimensions and weight	
Design	compact
Width	66 mm (2.6 in)
Height	188 mm (7.4 in)
Depth	127 mm (5 in)

Net weight	1.22 kg
Material / of the enclosure	20 AWG galvanized steel enclosure
Type of mounting	
<ul style="list-style-type: none"> • Installation 19 inch 	No
<ul style="list-style-type: none"> • 35 mm DIN rail mounting 	Yes
<ul style="list-style-type: none"> • wall mounting 	Yes
Product properties, functions, components / general	
number of automatically learnable MAC addresses	8192
memory capacity	
<ul style="list-style-type: none"> • of MAC-address table 	32 Kibyte
<ul style="list-style-type: none"> • of message buffer / maximum 	2 Mibyte
switch-latency period	7 µs
transfer rate / of the switch	16 Gbit/s
number of priority channels	4
product characteristic	
<ul style="list-style-type: none"> • no head-off-line-blocking 	Yes
<ul style="list-style-type: none"> • Switching-Methode Store & Forward 	Yes
Product functions / management, configuration	
Product function	
<ul style="list-style-type: none"> • CLI 	Yes
<ul style="list-style-type: none"> • web-based management 	Yes
<ul style="list-style-type: none"> • MIB support 	Yes
<ul style="list-style-type: none"> • RMON 	Yes
<ul style="list-style-type: none"> • switch-managed 	Yes
Protocol / is supported	
<ul style="list-style-type: none"> • Telnet 	Yes
<ul style="list-style-type: none"> • HTTP 	Yes
<ul style="list-style-type: none"> • HTTPS 	No
<ul style="list-style-type: none"> • TFTP 	Yes
<ul style="list-style-type: none"> • SFTP 	Yes
<ul style="list-style-type: none"> • IGMP (snooping/querier) 	Yes
number of groups / at IGMP	256
Protocol / is supported	
<ul style="list-style-type: none"> • SNMP v1 	Yes
<ul style="list-style-type: none"> • SNMP v2 	No
<ul style="list-style-type: none"> • SNMP v2c 	Yes
<ul style="list-style-type: none"> • SNMP v3 	Yes
product function / for MIB-support	
<ul style="list-style-type: none"> • by BRIDGE-MIB 	RFC1493
<ul style="list-style-type: none"> • by IF-MIB 	RFC2863
<ul style="list-style-type: none"> • by RMON-MIB 	RFC2819
<ul style="list-style-type: none"> • by RSTP-MIB 	draft-ietf-bridge-bridgemib-smiv2-03-RSTP-MIB
<ul style="list-style-type: none"> • by SNMPv2-MIB 	RFC1907

• by SNMPv2-SMI	RFC2578
• by SNMPv2-TC	RFC2579
• by TCP-MIB	RFC2012
• by UDP-MIB	RFC2013
Product functions / VLAN	
Product function	
• VLAN - port based	Yes
Number of VLANs / maximum	255
VLAN-Identification number	1...4094
Protocol / is supported / GVRP	Yes
Product functions / DHCP	
Product function	
• DHCP client	Yes
• DHCP Option 82	Yes
• DHCP Option 66	No
• DHCP Option 67	No
Product functions / Redundancy	
Product function	
• redundancy procedure STP	Yes
• RSTP redundancy protocol	Yes
• redundancy procedure MSTP	Yes
• eRSTP	Yes
Protocol / is supported	
• STP	Yes
• RSTP	Yes
• MSTP	Yes
Product functions / Security	
product function	
• IEEE 802.1x (radius)	Yes
protocol / is supported	
• TACACS+	Yes
• SSH	Yes
• SSL	Yes
key length	
• at SSL	128 bit
• at RSA	1024 bit
product function / port-rate-limiting	Yes
adjustable port-rate-limitation	128 kbit/s...8 Mbit/s
Product functions / Time	
product function	
• SNTP-client	Yes
• SNTP-server	Yes
Protocol / is supported	
• SNTP	Yes
Standards, specifications, approvals	
Standard	

<ul style="list-style-type: none"> • for EMC 	FCC Part 15 (Class A), EN55022 (CISPR22 Class A)
<ul style="list-style-type: none"> • for safety / of CSA and UL 	cCSAus (Compliant with CSA C22.2 No. 60950, UL60950, EN60950)
Laser protection class	Complies with 21 CFR Chapter1, Subchapter J
Verification of suitability	
<ul style="list-style-type: none"> • CE mark 	Yes
<ul style="list-style-type: none"> • IEC 61850-3 	Yes
product conformity	
<ul style="list-style-type: none"> • according to IEEE 802.3-10BaseT 	Yes
<ul style="list-style-type: none"> • according to IEEE 802.3u-100BaseTX 	Yes
<ul style="list-style-type: none"> • according to IEEE 802.3u-100BaseFX 	Yes
<ul style="list-style-type: none"> • according to IEEE 802.3x-Flow Control 	Yes
<ul style="list-style-type: none"> • according to IEEE 802.3ab-1000BaseT 	Yes
<ul style="list-style-type: none"> • according to IEEE 802.3ad-Link Aggregation 	Yes
<ul style="list-style-type: none"> • according to IEEE 802.1d-MAC Bridges 	Yes
<ul style="list-style-type: none"> • according to IEEE 802.1d-STP 	Yes
<ul style="list-style-type: none"> • according to IEEE 802.1p-class of service 	Yes
<ul style="list-style-type: none"> • according to IEEE 802.1Q-VLAN tagging 	Yes
<ul style="list-style-type: none"> • according to IEEE 802.1Q-2005 (formerly IEEE 802.1s) MSTP 	Yes
<ul style="list-style-type: none"> • according to IEEE 802.1w-RRST 	Yes
<ul style="list-style-type: none"> • according to IEEE 802.1x-port based Network Access Control 	Yes
product conformity	
<ul style="list-style-type: none"> • RFC768-UDP 	Yes
<ul style="list-style-type: none"> • RFC783-TFTP 	Yes
<ul style="list-style-type: none"> • RFC791-IP 	Yes
<ul style="list-style-type: none"> • RFC792-ICMP 	Yes
<ul style="list-style-type: none"> • RFC793-TCP 	Yes
<ul style="list-style-type: none"> • RFC826-ARP 	Yes
<ul style="list-style-type: none"> • RFC854-Telnet 	Yes
<ul style="list-style-type: none"> • RFC894-IP over Ethernet 	Yes
<ul style="list-style-type: none"> • RFC1112-IGMPv1 	Yes
<ul style="list-style-type: none"> • RFC1519-CIDR 	Yes
<ul style="list-style-type: none"> • RFC1541-DHCP (client) 	Yes
<ul style="list-style-type: none"> • RFC2068-HTTP 	Yes
<ul style="list-style-type: none"> • RFC2236-IGMPv2 	Yes
<ul style="list-style-type: none"> • RFC2284-EAP 	Yes
<ul style="list-style-type: none"> • RFC2475-Differentiated Service 	Yes
<ul style="list-style-type: none"> • RFC2865-RADIUS 	Yes
<ul style="list-style-type: none"> • RFC3414-SNMPv3-USM 	Yes
<ul style="list-style-type: none"> • RFC3415-SNMPv3-VACM 	Yes
Further Information / Internet Links	
Internet link	

- to website
- Industry Mall/RUGGEDCOM Selector <http://ruggedcom-selector.automation.siemens.com>
- Siemens RUGGEDCOM <http://siemens.com/ruggedcom>
- 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:

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