

6GK6090-0PS2.-.... RS900GP

Technical Data

Product-type designation RUGGEDCOM RS900GP

Product description



10-Port PoE Managed Ethernet Switch with Gigabit Uplink Ports, 128-bit Encryption

RUGGEDCOM RS900GP IS A UTILITY GRADE, FULLY MANAGED ETHERNET SWITCH PROVIDING DUAL FIBER OPTICAL OR COPPER GIGABIT ETHERNET PORTS & 8 FAST ETHERNET COPPER PORTS POWER OVER ETHERNET, 802.3AT 128-BIT ENCRYPTION; 8 FAST ETHERNET PORTS (10/100BASETX) ALL EXTERNAL 802.3AF/802.3AT COMPLIANT POE; UP TO 2 FIBER OPTICAL GIGABIT ETHERNET PORTS (100/1000BASEX); UP TO 2 10/100/1000 BASETX MULTIPLE FIBER CONNECTOR TYPES (LC, SC,ST, SFP

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	10
<ul style="list-style-type: none"> remark 	8 x Fast Ethernet Ports
number of electrical/optical connections / for gigabit Ethernet / maximum	2
Number of electrical connections	
<ul style="list-style-type: none"> for network components and terminal equipment 	
<ul style="list-style-type: none"> maximum 	8
<ul style="list-style-type: none"> for gigabit Ethernet / maximum 	2
<ul style="list-style-type: none"> for operator console 	1
<ul style="list-style-type: none"> for management purposes 	0
Design of electrical connection	
<ul style="list-style-type: none"> for operator console 	RS232
<ul style="list-style-type: none"> for signaling contact 	3-pole terminal block, screwable
<ul style="list-style-type: none"> 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	No
Type of voltage / 2 / of the supply voltage	DC
Supply voltage / 2	
<ul style="list-style-type: none"> rated value rated value 	54 V 44...57 V
Power loss	
<ul style="list-style-type: none"> maximum 	160 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	92.2 mm (3.63 in)
Height	176.53 mm (6.95 in)
Depth	154.432 mm (6.08 in)
Net weight	2.5 kg
Material / of the enclosure	Cast Aluminum Enclosure
Type of mounting	
<ul style="list-style-type: none"> Installation 19 inch 35 mm DIN rail mounting wall mounting 	No Yes 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 of message buffer / maximum 	32 Kibyte 2 Mibyte
switch-latency period	7 µs
transfer rate / of the switch	5.6 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
<ul style="list-style-type: none"> Zero-Packet-Loss technology 	No
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
<ul style="list-style-type: none"> by SNMPv2-SMI 	RFC2578
<ul style="list-style-type: none"> by SNMPv2-TC 	RFC2579
<ul style="list-style-type: none"> by TCP-MIB 	RFC2012
<ul style="list-style-type: none"> by UDP-MIB 	RFC2013
Product functions / VLAN	
Product function	
<ul style="list-style-type: none"> VLAN - port based 	Yes
Number of VLANs / maximum	255
Protocol / is supported / GVRP	Yes
Product functions / DHCP	
Product function	
<ul style="list-style-type: none"> DHCP client 	Yes
<ul style="list-style-type: none"> 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	
• for EMC	FCC Part 15 (Class A), EN55022 (CISPR22 Class A)
• 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	
• CE mark	Yes
• IEC 61850-3	Yes
product conformity	
• according to IEEE 802.3-10BaseT	Yes
• according to IEEE 802.3u-100BaseTX	Yes
• according to IEEE 802.3u-100BaseFX	Yes
• according to IEEE 802.3x-Flow Control	Yes

• according to IEEE 802.3ab-1000BaseT	Yes
• according to IEEE 802.3ad-Link Aggregation	Yes
• according to IEEE 802.1d-MAC Bridges	Yes
• according to IEEE 802.1d-STP	Yes
• according to IEEE 802.1p-class of service	Yes
• according to IEEE 802.1Q-VLAN tagging	Yes
• according to IEEE 802.1Q-2005 (formerly IEEE 802.1s) MSTP	Yes
• according to IEEE 802.1w-RRST	Yes
• according to IEEE 802.1x-port based Network Access Control	Yes
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product conformity	
• RFC768-UDP	Yes
• RFC783-TFTP	Yes
• RFC791-IP	Yes
• RFC792-ICMP	Yes
• RFC793-TCP	Yes
• RFC826-ARP	Yes
• RFC854-Telnet	Yes
• RFC894-IP over Ethernet	Yes
• RFC1112-IGMPv1	Yes
• RFC1519-CIDR	Yes
• RFC1541-DHCP (client)	Yes
• RFC2068-HTTP	Yes
• RFC2236-IGMPv2	Yes
• RFC2284-EAP	Yes
• RFC2475-Differentiated Service	Yes
• RFC2865-RADIUS	Yes
• RFC3414-SNMPv3-USM	Yes
• RFC3415-SNMPv3-VACM	Yes
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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

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