

6GK6090-0AS2.-.... RS900

Technical Data

Product-type designation

RUGGEDCOM RS900

Product description

9-Port Managed Ethernet Switch with Fiber Optical Uplinks, 128-bit Encryption



RUGGEDCOM RS900 IS A 9-PORT INDUSTRIALLY HARDENED, FULLY MANAGED ETHERNET SWITCH; 128-BIT ENCRYPTION; UP TO 9 PORTS: 6 BASE 10/100BAS PORTS WITH OPTION FOR 3 ADDITIO FIBER OR COPPER PORTS INDUSTRY STANDARD FIBER OPTICAL CONNECTORS: LC, SC, ST, MTRJ MULTIMODE AND SINGLEMODE OPTICAL TRANSCEIVERS LONG HAUL OPTICS ALLOW DISTANCES UP TO 90KM

Transmission rate

Transfer rate / 1	10 Mbit/s
Transfer rate / 2	100 Mbit/s

Interfaces

Number of electrical/optical connections / for network components or terminal equipment / maximum	9
<ul style="list-style-type: none"> remark 	up to 9 Ports: 6 x 10/100TX ports with option for 3 additional Fiber or Copper ports
Number of electrical connections	
<ul style="list-style-type: none"> for network components and terminal equipment maximum for operator console for management purposes 	9 1 0
Design of electrical connection	
<ul style="list-style-type: none"> for operator console for signaling contact for power supply 	RS232 3-pole terminal block, screwable 5-pole terminal block, screwable
Number of optical connections / for network components or terminal equipment / maximum	3
Range / at the optical interface / depending on the optical fiber used	2...90 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 	10 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 35 mm DIN rail mounting 	No Yes

• wall mounting	Yes
Product properties, functions, components / general	
number of automatically learnable MAC addresses	8192
memory capacity	
• of message buffer / maximum	1 Mibyte
switch-latency period	7 µs
transfer rate / of the switch	1.8 Gbit/s
number of priority channels	4
product characteristic	
• no head-off-line-blocking	Yes
• Switching-Methode Store & Forward	Yes
• Zero-Packet-Loss technology	No
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	No
• TFTP	Yes
• SFTP	Yes
• IGMP (snooping/querier)	Yes
number of groups / at IGMP	256
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	RFC2863
• by RMON-MIB	RFC2819
• by RSTP-MIB	draft-ietf-bridge-bridgemib-smiv2-03-RSTP-MIB
• 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	
<ul style="list-style-type: none"> VLAN - port based 	Yes
Number of VLANs / maximum	255
VLAN-Identification number	1...4094
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
<ul style="list-style-type: none"> DHCP Option 66 	No
<ul style="list-style-type: none"> DHCP Option 67 	No
Product functions / Redundancy	
Product function	
<ul style="list-style-type: none"> redundancy procedure STP 	Yes
<ul style="list-style-type: none"> RSTP redundancy protocol 	Yes
<ul style="list-style-type: none"> redundancy procedure MSTP 	Yes
<ul style="list-style-type: none"> eRSTP 	Yes
Protocol / is supported	
<ul style="list-style-type: none"> STP 	Yes
<ul style="list-style-type: none"> RSTP 	Yes
<ul style="list-style-type: none"> MSTP 	Yes
Product functions / Security	
product function	
<ul style="list-style-type: none"> IEEE 802.1x (radius) 	Yes
protocol / is supported	
<ul style="list-style-type: none"> TACACS+ 	Yes
<ul style="list-style-type: none"> SSH 	Yes
<ul style="list-style-type: none"> SSL 	Yes
key length	
<ul style="list-style-type: none"> at SSL 	128 bit
<ul style="list-style-type: none"> 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	
<ul style="list-style-type: none"> SNTP-client 	Yes
<ul style="list-style-type: none"> SNTP-server 	Yes
Protocol / is supported	
<ul style="list-style-type: none"> 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	
• 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 802.3ad-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
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
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

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| • 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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