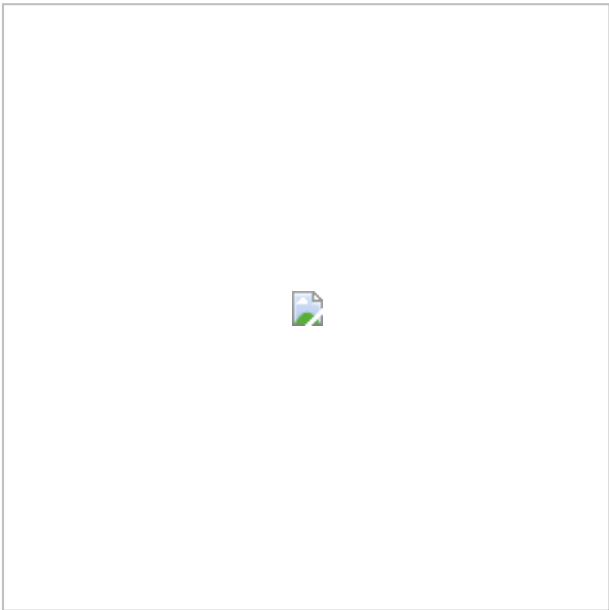


Technical Data

Product-type designation	RUGGEDCOM RS900GPNC
Product description	10-Port PoE Managed Ethernet Switch with Gigabit Uplink Ports, 56-bit Encryption
	<p>RUGGEDCOM RS900GPNC 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 56-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</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	10
<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/optical connections / for gigabit Ethernet / maximum	2
Number of electrical connections	
<ul style="list-style-type: none"> for network components or terminal equipment / 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 components or terminal equipment / maximum	2
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	Changeover contact
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 / 2 / of 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
Mounting type	
<ul style="list-style-type: none"> 19-inch installation 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 	32 Kibyte
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
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
<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"> • redundancy procedure RSTP 	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 	56 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	
<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 802.3af-Power-over-Ethernet 	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	
<ul style="list-style-type: none"> • to website: Industry Mall/RUGGEDCOM-Selector 	http://ruggedcom-selector.automation.siemens.com

- to website: Industry Mall <http://www.siemens.com/industrial-controls/mall>
- to website: Selector for cables and connectors <http://www.siemens.com/snst>
- to website: Siemens RUGGEDCOM <http://siemens.com/ruggedcom>
- to website: Industrial communication <http://www.siemens.com/simatic-net>
- to website: Information and Download Center <http://www.siemens.com/automation/net/catalog>
- to website: Image database <http://automation.siemens.com/bilddb>
- to website: CAx Download Manager <http://www.siemens.com/cax>
- to website: Industry Online Support <http://support.automation.siemens.com>

letzte Änderung:

Jul 7, 2014