

RUGGEDCOM RS8000H hardened, fully managed, Ethernet switches; 4 x 10/100BaseTX + 4 x 100BaseFX; 128-bit encryption;

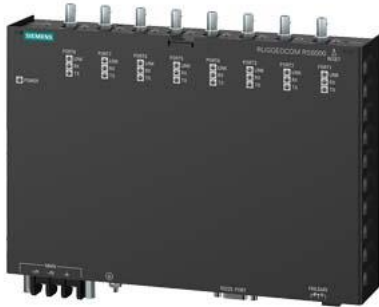


Figure similar

product type designation	RUGGEDCOM RS8000H
transfer rate	
transfer rate	10 Mbit/s, 100 Mbit/s
number of ports / maximum	8
interfaces / other	
number of electrical connections	
• for operator console	1
• for management purposes	0
type of electrical connection	
• for operator console	RS232
• for signaling contact	3-pole terminal block, screwable
• for power supply	5-pole screw contact
signal inputs/outputs	
relay design	Form-C contact relay (SPDT)
type of relay output	Changeover contact (CO)
operational current / of the signaling contacts	
• 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 / rated value	24 V
• power loss [W] / 1 / rated value	15 W
• supply voltage / 1 / rated value	10 ... 36 V
type of voltage / 2 / of the supply voltage	DC
• supply voltage / 2 / rated value	48 V
• supply voltage / 2 / rated value	36 ... 59 V
type of voltage / 3 / of the supply voltage	DC
• supply voltage / 3 / rated value	88 ... 300 V
type of voltage / 4 / of the supply voltage	AC
• supply voltage / 4 / rated value	85 ... 265 V
ambient conditions	
ambient temperature	
• during operation	-40 ... +85 °C
• note	A maximum operating temperature of +85 °C is permissible for a duration of 16 hours
operating condition / fanless operation	Yes
protection class IP	IP3X
design, dimensions and weights	
design	compact

width	198.37 mm
height	61.8 mm
depth	248.92 mm
net weight	2.25 kg
product feature / conformal coating	optional
material / of the enclosure	18 AWG galvanized steel enclosure
fastening method	
• 19-inch installation	No
• 35 mm top hat DIN rail mounting	Yes
• wall mounting	Yes
product features, product functions, product components / general	
number of automatically learnable MAC addresses	8192
storage capacity	
• of message buffer / maximum	256 kbyte
switch latency period	4 µs
transfer rate / of the switch	1.6 Gbit/s
number of priority channels	2
product feature	
• Store & Forward switching method	Yes
• Zero-Packet-Loss technology	Yes; Zero-Packet-Loss applies to fiber optic interfaces
product functions / management, configuration, engineering	
product function	
• CLI	Yes
• web-based management	Yes
• MIB support	Yes
• RMON	Yes
product function / switch-managed	Yes
protocol / is supported	
• Telnet	Yes
• HTTP	Yes
• HTTPS	Yes
• TFTP	Yes
• SFTP	Yes
• SNMP v1	Yes
• SNMP v2	No
• SNMP v2c	Yes
• SNMP v3	Yes
• IGMP (snooping/querier)	Yes
number of groups / at IGMP	256
product function	
• for MIB support / by BRIDGE-MIB	RFC4188
• for MIB support / by IF-MIB	RFC2863
• for MIB support / by RMON-MIB	RFC2819
• for MIB support / by RSTP-MIB	RFC4318
• for MIB support / by SNMPv2-MIB	RFC1907
• for MIB support / by SNMPv2-SMI	RFC2578
• for MIB support / by SNMPv2-TC	RFC2579
• for MIB support / by TCP-MIB	RFC2012
• for MIB support / by UDP-MIB	RFC2013
product functions / VLAN	
product function	
• VLAN - port based	Yes
number of VLANs / maximum	64
VLAN identification number	1 ... 1000
protocol / is supported / GVRP	Yes
product functions / DHCP	
product function	
• DHCP client	Yes
• DHCP Option 82	Yes
• DHCP Option 66	No

<ul style="list-style-type: none"> • DHCP Option 67 	No
product functions / routing	
protocol / is supported <ul style="list-style-type: none"> • PPP 	Yes
product functions / redundancy	
product function <ul style="list-style-type: none"> • redundancy procedure STP • redundancy procedure RSTP • redundancy procedure MSTP • eRSTP 	Yes Yes Yes Yes
protocol / is supported <ul style="list-style-type: none"> • STP • RSTP • MSTP 	Yes Yes Yes
product functions / security	
product function <ul style="list-style-type: none"> • IEEE 802.1x (radius) • RADIUS client 	No Yes
protocol / is supported <ul style="list-style-type: none"> • RADIUS • TACACS+ • SSL 	Yes Yes Yes
key length <ul style="list-style-type: none"> • with SSL • with RSA 	128 bit 1024 bit
product function / port-rate-limiting	Yes
product functions / time	
product function <ul style="list-style-type: none"> • SNTP client • SNTP server 	Yes Yes
protocol / is supported <ul style="list-style-type: none"> • SNTP 	Yes
standards, specifications, approvals	
standard <ul style="list-style-type: none"> • for safety / from CSA and UL 	cCSAus (Compliant with CSA C22.2 No. 60950, UL60950, EN60950)
reference code <ul style="list-style-type: none"> • according to IEC 81346-2 • according to IEC 81346-2:2019 	KF KFE
standards, specifications, approvals / CE	
certificate of suitability / CE marking	Yes
standard <ul style="list-style-type: none"> • for EMC 	FCC Part 15 (Class A), EN55022 (CISPR22 Class A)
standards, specifications, approvals / other	
laser protection class	Complies with 21 CFR chapter 1, subchapter J
certificate of suitability <ul style="list-style-type: none"> • IEC 61850-3 	Yes
standards, specifications, approvals / product conformity	
product conformity <ul style="list-style-type: none"> • according to IEEE 802.3-10BaseT • according to IEEE 802.3u-100BaseTX • according to IEEE 802.3u-100BaseFX • according to IEEE 802.3x-Flow Control • according to IEEE 802.1d-MAC Bridges • according to IEEE 802.1d-STP • according to IEEE 802.1p-class of service • according to IEEE 802.1Q-VLAN tagging • according to IEEE 802.1w-RRST • according to IEEE 802.1x-port based Network Access Control • RFC768-UDP 	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes

- RFC783-TFTP
- RFC791-IP
- RFC792-ICMP
- RFC793-TCP
- RFC826-ARP
- RFC854-Telnet
- RFC894-IP over Ethernet
- RFC1112-IGMPv1
- RFC1519-CIDR
- RFC1541-DHCP (client)
- RFC2030-SNTP
- RFC2068-HTTP
- RFC2236-IGMPv2

Yes
Yes
Yes
Yes
Yes
Yes
Yes
Yes
Yes
Yes
Yes
Yes
Yes

further information / internet links

internet link

- to website: Selection guide for cables and connectors
- to website: Industry Mall/RUGGEDCOM selector
- to website: Industrial communication
- to website: Siemens RUGGEDCOM
- to website: Image database
- to website: CAX-Download-Manager
- to website: Industry Online Support

<https://support.industry.siemens.com/cs/ww/de/view/109766371>
<https://www.siemens.com/ruggedcom-selector>
<https://www.siemens.com/simatic-net>
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<https://www.siemens.com/cax>
<https://support.industry.siemens.com>

security information

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Approvals / Certificates

General Product Approval



[Manufacturer Declaration](#)



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CB

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