

RUGGEDCOM RSG2100 is an industrially hardened, fully managed Ethernet switch; 128-bit Encryption; Up to 3-Gigabit Ethernet ports copper and/or fiber; Up to 16-Fast Ethernet ports copper and/or fiber; 2 port modules for tremendous flexibility; Non-blocking, store and forward switching; Supports many types of fiber (multimode, singlemode, Bi-directional single strand) Long haul optics allow Gigabit distances up to 70km Multiple connector types (ST, MTRJ, LC, SC, RJ45, micro-D) HI = 88-300 VDC or 85-264 VAC, screw terminal block HI = 88-300 VDC or 85-264 VAC, screw terminal block RM = 19" Rack Mount Kit R = Ethernet on rear; LED panel on front; power connector on rear XX = Manufacturing modification: none

product type designation	RUGGEDCOM RSG2100
transfer rate	
transfer rate	10 Mbit/s, 100 Mbit/s, 1000 Mbit/s
number of ports / maximum	19; Number of ports depending on configuration
interfaces / other	
number of electrical connections	
• for operator console	1
• for management purposes	0
type of electrical connection	
• for operator console	RJ45
• for power supply and signaling contact	10-pole terminal block, screwable or plugable, screw contact
signal inputs/outputs	
relay design	Form-C contact relay (SP CO)
type of relay output	Changeover contact
operating voltage / of the signaling contacts	
• at AC / maximum	230 V
• at DC / maximum	250 V
operational current / of the signaling contacts	
• at AC / at 250 V / maximum	2 A
• at DC / at 30 V / maximum	2 A
• at DC / at 125 V	0.15 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	28 W
• consumed current / 1 / at rated supply voltage / maximum	1.2 A
• supply voltage / 1 / rated value	10 ... 36 V
type of voltage / 2 / of the supply voltage	DC
• supply voltage / 2 / rated value	48 V
• consumed current / 2 / at rated supply voltage / maximum	0.6 A
• supply voltage / 2 / rated value	36 ... 72 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 ... 264 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	IP20
design, dimensions and weights	
display version / LED panel mounted on the front or on the rear side	Yes

design	19" rack
number of modular height units / relating to 19-inch cabinet	1
number of slots	10
width	438.15 mm
height	44.45 mm
depth	303.28 mm
net weight	5.2 kg
product feature / conformal coating	optional
material / of the enclosure	18 AWG galvanized steel enclosure
fastening method	
• 19-inch installation	Yes
• 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 the MAC-address table	64 Kibyte
• of message buffer / maximum	256 Kibyte
switch latency period	4 µs
transfer rate / of the switch	15.2 Gbit/s
number of priority channels	4
product feature	
• no head-off-line-blocking	Yes
• Store & Forward switching method	Yes
• Zero-Packet-Loss technology	Yes
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	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	
• ring redundancy	Yes
protocol / is supported / Media Redundancy Protocol (MRP)	Yes
product function	
• media redundancy protocol (MRP) with redundancy manager	Yes
• redundancy procedure STP	Yes
• redundancy procedure RSTP	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	
• with SSL	128 bit
• with RSA	1024 bit
product function / port-rate-limiting	Yes
product functions / time	
product function	
• SNTP client	Yes
• SNTP server	Yes
protocol / is supported	
• SNTP	Yes
standards, specifications, approvals	
standard	
• for safety / from CSA and UL	cCSAus (Compliant with CSA C22.2 No. 60950, UL60950, EN60950)
standards, specifications, approvals / CE	
certificate of suitability / CE marking	Yes
standard	
• 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	
• IEC 61850-3	Yes
• according to FIPS 140-2	No
• according to Common Criteria (CC)	No
standards, specifications, approvals / product conformity	
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 802.3ab-1000BaseT	Yes
• according to IEEE 802.3z-1000BaseLX	Yes
• according to IEEE 802.3ad-Link Aggregation	Yes
• according to IEEE 802.3x-Flow Control	Yes

