



## RS20-0800S2S2SDAEHH01.0.

Industrial Networking:Industrial Ethernet:Open Rail System:Compact:Switches

### Product description

Description	Redundancy Industrial ETHERNET Rail Switch, Layer 2 Switch with Software Enhanced, Ethernet (10 Mbit/s) and Fast-Ethernet (100 Mbit/s)
Port type and quantity	6 x 10/100BASE-TX, TP cable, RJ45 sockets, auto-negotiation, auto-polarity, 2 x 100BASE-FX, SM cable, SC sockets
Type	RS20-0800S2S2SDAEHH01.0.
Order No.	943 434-019

### More Interfaces

Power supply/signaling contact	1 plug-in terminal block, 6-pin
V.24 interface	1 x RJ11 socket
USB interface	1 x to connect auto-configuration adapter (ACA21-USB)

### Network size - length of cable

Twisted pair (TP)	0 - 100 m
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### Network size - cascading

Line - / star topology	any
Ring structure (HIPER-Ring)	50 (reconfiguration time < 0.3 sec.)

### Power requirements

Operating voltage	9.6 to 60 V DC and 18 to 30 V AC
Current consumption at 24 V DC	max. 270 mA

### Service

	serial interface, web interface, SNMP V1/V2/V3, HiVision, file transfer SW HTTP/TFTP
Diagnostics	LEDs (power, link status, data, 100 Mbit/s, auto-negotiation, full-duplex, error, redundancy management, ring-port, LED-test), signal contact (24V DC / 1 A), syslog, logfile, RMON, port mirroring, Topology Discovery IEEE 802.1AB (LLDP)
Configuration	command line interface (CLI), TELNET, BootP, DHCP, DHCP Option 82, HIDiscovery, auto-configuration adapter (ACA21-USB)
Security	port-security (MAC- and IP-adresses), access control to agent (VLAN/IP)
Other services	QoS 4 classes, prioritisation (IEEE 802.D/p), VLAN (IEEE 802.1Q), multicast (IGMP snooping/querier), broadcastlimiter, fast aging, flow control IEEE 802.3x, PTP client (Precision Time Protocol, IEEE 1588), SNTP (Simple Network Time Protocol)

### Redundancy

Redundancy functions	HIPER-Ring (ring structure), RSTP IEEE 802.1w (Rapid Spanning Tree Protocol), redundant network/ring coupling, (master/receiver functionality), dual homing (master/receiver functionality), redundant 24 V power supply
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### Ambient conditions

Operating temperature	0 °C to +60 °C
Storage/transport temperature	-40 °C to +70 °C
Relative humidity (non-condensing)	10% to 95%
MTBF	22.9 years; MIL-HDBK 217F: Gb 25 °C

### Mechanical construction

Dimensions (W x H x D)	71 mm x 131 mm x 111 mm
Mounting	DIN Rail 35 mm
Weight	410 g
Protection class	IP 20

### Mechanical stability

IEC 60068-2-27 shock	15 g, 11 ms duration, 18 shocks
IEC 60068-2-6 vibration	1 mm, 2 Hz - 13.2 Hz, 90 min.; 0.7g, 13.2 Hz - 100 Hz, 90 min.; 3.5 mm, 3 Hz - 9 Hz, 10 cycles, 1 octave/min.; 1g, 9 Hz - 150 Hz, 10 cycles, 1 octave/min
<b>EMC interference immunity</b>	
EN 61000-4-2 electrostatic discharge (ESD)	6 kV contact discharge, 8 kV air discharge
EN 61000-4-3 electromagnetic field	10 V/m (80 - 1000 MHz)
EN 61000-4-4 fast transients (burst)	2 kV power line, 1 kV data line
EN 61000-4-5 surge voltage	power line: 2 kV (line/earth), 1 kV (line/line), 1 kV data line
EN 61000-4-6 conducted immunity	3 V (10 kHz - 150 kHz), 10 V (150 kHz - 80 MHz)
<b>EMC emitted immunity</b>	
FCC CFR47 Part 15	FCC CFR47 Part 15 Class A
EN 55022	EN 55022 Class A
<b>Approvals</b>	
Safety of industrial control equipment	cUL 508 (pending)
Hazardous locations	cUL 1604 Class 1 Div 2 (pending)
<b>Scope of delivery and accessories</b>	
Scope of delivery	device, terminal block, operating manual
Accessories to order separately	rail power supply RPS 30, RPS 60 or RPS 120, terminal cable, HiVision network management, auto-configuration adapter (ACA21-USB), 19" installation frame