




## Product information Compact OpenRail Fast Ethernet Switch 4-25 ports - RS20-1600M2M2SDAEHH08.0.

Industrial Ethernet: Compact configurable managed switches: with Firmware Release 8: Compact OpenRail Fast Ethernet Switch 4-25 ports

<http://e-catalog.hirschmann.com/link/57078-24455-49854-374156-373456/en/RS20-1600M2M2SDAEHH08.0./uistate>

<b>Name</b>	Compact OpenRail Fast Ethernet Switch 4-25 ports
	
	16 port Fast-Ethernet-Switch, managed, software Layer 2 Enhanced, for DIN rail store-and-forward-switching, fanless design
<b>Delivery informations</b>	
<b>Availability</b>	available
<b>Product description</b>	
<b>Description</b>	16 port Fast-Ethernet-Switch, managed, software Layer 2 Enhanced, for DIN rail store-and-forward-switching, fanless design
<b>Port type and quantity</b>	16 ports in total; 1. uplink: 100BASE-FX, MM-SC; 2. uplink: 100BASE-FX, MM-SC; 14 x standard 10/100 BASE TX, RJ45
<b>Type</b>	RS20-1600M2M2SDAEHH08.0.
<b>Order No.</b>	943 434-005
<b>More Interfaces</b>	
<b>Power supply/signaling contact</b>	1 x plug-in terminal block, 6-pin
<b>V.24 interface</b>	1 x RJ11 socket
<b>USB interface</b>	1 x USB to connect the AutoConfiguration Adapter ACA21-USB
<b>Network size - length of cable</b>	
<b>Multimode fiber (MM) 50/125 µm</b>	0 - 5000 m, 8 dB link budget at 1300 nm, A = 1 d/km, 3 dB reserve, B = 800 MHz x km
<b>Multimode fiber (MM) 62.5/125 µm</b>	0 - 4000 m, 11 dB link budget at 1300 nm, A = 1 dB/km, 3 dB reserve, B = 500 MHz x km
<b>Network size - cascading</b>	
<b>Line - / star topology</b>	any
<b>Ring structure (HIPER-Ring) quantity switches</b>	50 (reconfiguration time < 0.3 sec.)
<b>Power requirements</b>	
<b>Operating voltage</b>	12/24/48 V DC (9,6-60) V and 24 V AC (18-30) V (redundant)
<b>Current consumption at 24 V DC</b>	492 mA
<b>Current consumption at 48 V DC</b>	246 mA
<b>Power output in Btu (IT) h</b>	40.3
<b>Software</b>	
<b>Management</b>	Serial interface, web interface, SNMP V1/V2, HiVision file transfer SW HTTP/TFTP
<b>Diagnostics</b>	LEDs, log-file, relay contact, RMON, port mirroring 1:1, topology discovery 802.1AB, address conflict detection, network error detection, SFP diagnostic [temperature, optical input and output power (µW and dBm)], Trap for configuration saving and changing, duplex mismatch detection, disable learning.
<b>Configuration</b>	Command line interface (CLI), TELNET, BootP, DHCP, DHCP option 82, HiDiscovery, easy device exchange with auto-configuration adapter ACA21-USB (automatic software and/or configuration upload), automatic invalid configuration undo, configuration signature (water marking)
<b>Security</b>	Port Security (IP und MAC) with multiple addresses, SNMP V3 (no encryption)
<b>Redundancy functions</b>	HIPER-ring (ring structure), MRP (IEC-ring functionality), RSTP 802.1D-2004, redundant network/ring coupling, MRP and RSTP in parallel, redundant 24 V power supply
<b>Filter</b>	QoS 4 classes, port prioritisation (IEEE 802.1D/p), VLAN (IEEE 802.1Q), shared VLAN learning, multicast (IGMP Snooping/Querier), multicast detection unknown multicast, broadcastlimiter, fast aging
<b>Industrial Profiles</b>	EtherNet/IP and PROFINET (2.2 PDEV, GSDML stand-alone generator, automatic device exchange) profiles included, configuration and diagnostic via automation software tools like e.g. STEP7, or Control Logix
<b>Time synchronisation</b>	SNTP server, PTP / IEEE 1588
<b>Flow control</b>	Flow control 802.3x, port priority 802.1D/p, priority (TOS/DIFFSERV)
<b>Presettings</b>	Standard
<b>Ambient conditions</b>	
<b>Operating temperature</b>	0 °C ... 60 °C
<b>Storage/transport temperature</b>	-40 °C ... 70 °C
<b>Relative humidity (non-condensing)</b>	10 % ... 95 %



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MTBF	40.1 years (MIL-HDBK-217F)
Protective paint on PCB	No
<b>Mechanical construction</b>	
Dimensions (W x H x D)	110 mm x 131 mm x 111 mm
Mounting	DIN Rail
Weight	600 g
Protection class	IP20
<b>Mechanical stability</b>	
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.; 0.7 g, 13.2 Hz-100 Hz, 90 min.; 3.5 mm, 3 Hz-9 Hz, 10 cycles, 1 octave/min.; 1 g, 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 47 CFR Part 15 Class A
EN 55022	EN 55022 Class A
<b>Approvals</b>	
Safety of industrial control equipment	cUL 508
Hazardous locations	ISA 12.12.01 Class 1 Div. 2
Shipbuilding	n/a
Railway norm	n/a
Substation	n/a
<b>Scope of delivery and accessories</b>	
Scope of delivery	Device, terminal block, operating manual

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