


## Product information

### Compact OpenRail Fast Ethernet Switch 4-25 ports - RS20-0400T1T1SDAEHH08.0.

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/RS20-0400T1T1SDAEHH08.0/uistate>

Name	
Compact OpenRail Fast Ethernet Switch 4-25 ports	
	
4 port Fast-Ethernet-Switch, managed, software Layer 2 Enhanced, for DIN rail store-and-forward-switching, fanless design	
Delivery informations	
Availability	available
Product description	
Description	4 port Fast-Ethernet-Switch, managed, software Layer 2 Enhanced, for DIN rail store-and-forward-switching, fanless design
Port type and quantity	4 ports in total; 1. uplink: 10/100BASE-TX, RJ45; 2. uplink: 10/100BASE-TX, RJ45; 2 x standard 10/100 BASE TX, RJ45
Type	RS20-0400T1T1SDAEHH08.0.
Order No.	943 434-007
More Interfaces	
Power supply/signaling contact	1 x plug-in terminal block, 6-pin
V.24 interface	1 x RJ11 socket
USB interface	1 x USB to connect the AutoConfiguration Adapter ACA21-USB
Network size - length of cable	
Twisted pair (TP)	0 m ... 100 m
Network size - cascading	
Line - / star topology	any
Ring structure (HIPER-Ring) quantity switches	50 (reconfiguration time < 0.3 sec.)
Power requirements	
Operating voltage	12/24/48 V DC (9,6-60) V and 24 V AC (18-30) V (redundant)
Current consumption at 24 V DC	221 mA
Current consumption at 48 V DC	111 mA
Power output in Btu (IT) h	18.1
Software	
Management	Serial interface, web interface, SNMP V1/V2, HiVision file transfer SW HTTP/TFTP
Diagnostics	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.
Configuration	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)
Security	Port Security (IP und MAC) with multiple addresses, SNMP V3 (no encryption)
Redundancy functions	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
Filter	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
Industrial Profiles	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
Time synchronisation	SNTP server, PTP / IEEE 1588
Flow control	Flow control 802.3x, port priority 802.1D/p, priority (TOS/DIFFSERV)
Presettings	Standard
Ambient conditions	
Operating temperature	0 °C ... 60 °C
Storage/transport temperature	-40 °C ... 70 °C
Relative humidity (non-condensing)	10 % ... 95 %
MTBF	75.9 years (MIL-HDBK-217F)

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<b>Protective paint on PCB</b>	No
<b>Mechanical construction</b>	
<b>Dimensions (W x H x D)</b>	47 mm x 131 mm x 111 mm
<b>Mounting</b>	DIN Rail
<b>Weight</b>	400 g
<b>Protection class</b>	IP20
<b>Mechanical stability</b>	
<b>IEC 60068-2-27 shock</b>	15 g, 11 ms duration, 18 shocks
<b>IEC 60068-2-6 vibration</b>	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>	
<b>EN 61000-4-2 electrostatic discharge (ESD)</b>	6 kV contact discharge, 8 kV air discharge
<b>EN 61000-4-3 electromagnetic field</b>	10 V/m (80-1000 MHz)
<b>EN 61000-4-4 fast transients (burst)</b>	2 kV power line, 1 kV data line
<b>EN 61000-4-5 surge voltage</b>	power line: 2 kV (line/earth), 1 kV (line/line), 1 kV data line
<b>EN 61000-4-6 conducted immunity</b>	3 V (10 kHz-150 kHz), 10 V (150 kHz-80 MHz)
<b>EMC emitted immunity</b>	
<b>FCC CFR47 Part 15</b>	FCC 47 CFR Part 15 Class A
<b>EN 55022</b>	EN 55022 Class A
<b>Approvals</b>	
<b>Safety of industrial control equipment</b>	cUL 508
<b>Hazardous locations</b>	ISA 12.12.01 Class 1 Div. 2
<b>Shipbuilding</b>	n/a
<b>Railway norm</b>	n/a
<b>Substation</b>	n/a
<b>Scope of delivery and accessories</b>	
<b>Scope of delivery</b>	Device, terminal block, operating manual

For more information please contact:

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