Product information
Modular OpenRail Fast Ethernet switch 8-24 ports - MS20-0800SAAEHH07.0.

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Name	**Modular OpenRail Fast Ethernet switch 8-24 ports**
	8 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	8 port Fast Ethernet switch, managed, software Layer 2 Enhanced, for DIN rail store-and-forward-switching, fanless design
Port type and quantity	Fast Ethernet ports in total: 8; Gigabit Ethernet ports: 0
Type	MS20-0800SAAEHH07.0.
Order No.	943 435-001
New version available	**Click here for the latest version**
More Interfaces	
Power supply/signaling contact	2 x plug-in terminal block, 4-pin
V.24 interface	1 x RJ11 socket
USB interface	1 x USB to connect the AutoConfiguration Adapter ACA21-USB
Network size - cascadibility	
Line - / star topology	any
Ring structure (HIPER-Ring) quantity switches	50 (reconfiguration time < 0.3 sec.)
Power requirements	
Operating voltage	24 V DC (18-32) V
Current consumption at 24 V DC	208 mA
Current consumption at 48 V DC	155 mA
Power output in Btu (IT) h	17.1
Software	
Management	Serial interface, web interface, SNMP V1/V2, HiVision file transfer SW HTTP/TFTP
Diagnostics	LEDs, log-file, syslog, relay contact, RMON, port mirroring 1:1, topology discovery 802.1AB, disable learning, SFP diagnostic (temperature, optical input and output power, power in dBm)
Configuration	Comand 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,
Security	Port Security (IP und MAC) with multiple addresses(50 MACs per port), SNMP V3 (without 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 priorisation (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 ºC ... 60 ºC
Storage/transport temperature	-40 ºC ... 70 ºC
Relative humidity (non-condensing)	10 % ... 95 %
MTBF	54.7 years (MIL-HDBK-217F)
Protective paint on PCB	No

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Mechanical construction	
Dimensions (W x H x D)	125 mm x 133 mm x 100 mm (140 at 48V module)
Mounting	DIN Rail
Weight	610 g
Protection class	IP20
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.; 0.7 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
EMC interference immunity	
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)
EMC emitted immunity	
FCC CFR47 Part 15	FCC 47 CFR Part 15 Class A
EN 55022	EN 55022 Class A
Approvals	
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
Transportation	NEMA TS2
Scope of delivery and accessories	
Scope of delivery	Device, 2 x terminal block, operating manual, CD

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