



## RSR20-0800M2M2T1SCCHPHH04.0.

Industrial Networking:Industrial Ethernet:RSR:Switches Release 4.0

Product description	
Released for sale	01/08
Description	ETHERNET/Fast ETHERNET-switch according to IEEE 802.3 compact, managed, Industrial Switch für DIN rail store-and-forward-switching fanless design, ports: 8 x FE
Port type and quantity	8 ports in total, 8 x FE; 1. Uplink-Port: 100BASE-FX, MM-SC; 2. Uplink-Port: 100BASE-FX, MM-SC; 6 x 10/100BASE TX, RJ45
Type	RSR20-0800M2M2T1SCCHPHH04.0.
Order No.	RSR20-0800M2M2T1SCCHPHH04.0.
More Interfaces	
Power supply/signaling contact	Power supply 1: 1 x plug-in terminal block 2-pin 1 x plug-in terminal block 2-pin; Power supply 2: 1 x plug-in terminal block 2-pin 1 x plug-in terminal block 2-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 - 100m
Multimode fiber (MM) 50/125 µm	0 - 5000 m, 8 dB link budget at 1300 nm, A = 1 dB/km, 3 dB reserve, B = 800 MHz x km
Multimode fiber (MM) 62.5/125 µm	0 - 5000 m, 8 dB link budget at 1300 nm, A = 1 dB/km, 3 dB reserve, B = 800 MHz x km
Single mode fiber (SM) 9/125 µm	-
Single mode fiber (LH) 9/125 µm (long haul transceiver)	-
Network size - cascability	
Line - / star topology	any
Ring structure (HIPER-Ring)	> 100
Reconfiguration time	< 10ms
Power requirements	
Operating voltage	Power supply 1: 24/36/48 VDC (16.8-60) V, Power supply 2: 24/36/48 VDC (16.8-60) V
Power output in Btu (IT) h	26.3
Software	
Management	Serial interface, web-interface, SNMP V1/V2, HiVision file transfer SW HTTP/TFTP
Diagnostics	LEDs, log-file, syslog, signal contact, RMON (statistic, history, alarms, events), port mirroring, topology discovery 802.1AB, cable diagnostic
Configuration	Command line interface (CLI), TELNET, BootP, DHCP, DHCP option 82, HIDiscovery, auto-configuration adapter (ACA11, ACA21-USB), watchdog configuration
Security	Port Security (IP und MAC), SNMP V3, SSH, Authentication (802.1x)
Redundancy functions	HIPER-ring (ring structure), MRP (IEC-ring functionality), RSTP 802.1w, redundant network/ring coupling, dual homing, link aggregation, redundant 24 V power supply,
Filter	QoS 4 Klassen, Portpriorisierung (IEEE 802.1D/p), VLAN (IEEE 802.1Q), shared VLAN learning, Multicast (IGMP Snooping/Querier), Multicast Detection unknown Multicast, Broadcastlimiter, Fast Aging, Multicast GMRP IEEE 802.1D
Realtime	SNTP server, realtime clock with energy buffer
Flow control	Flow Control 802.3x, Port Priority 802.1D/p, Priority (TOS/DIFFSERV), Prio (MAC/IP), Prio Mapping (TOS Layer2), Traffic Shaping (Unicast, Multicast, Broadcast) Ingress / Egress
Industrial Profiles	EtherNet/IP, PROFINET compatible, configuration and diagnostic via automation software tools like e.g. STEP7, or Control Logix
Ambient conditions	

Operating temperature	0° to +60°C
Storage/transport temperature	-40° to +70°C
Relative humidity (non-condensing)	10% to 95%

## Mechanical construction

Dimensions (W x H x D)	120 x 137 x 115
Mounting	DIN Rail
Weight	appr. 1kg
Protection class	IP20

## Mechanical stability

IEC 60068-2-27 shock	15 g, 11 ms Dauer, 18 Schocks
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 Zyklen, 1 Oktave/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 CFR47 Part 15 Class A
EN 55022	EN 55022 Class A

## Approvals

Safety of industrial control equipment	cUL 508 (pending)
Hazardous locations	cUL 1604 Class1 Div 2 (pending)
Germanischer Lloyd	Germanischer Lloyd (pending)
Substation	IEC 61850-3, IEEE 1613
Railway norm	EN 50121-4
Transportation	NEMA TS2

## Scope of delivery and accessories

Scope of delivery	Device, terminal block, operating manual
Accessories to order separately	Rail power supply RPS 30, RPS 80 EEC or RPS 120 EEC, terminal cable, network management HiVision, auto-configuration adapter (ACA21-USB), 19" installation frame