



Data sheet Compact OpenRail Fast Ethernet Switch 4-24 ports, 1-2 fiber ports - RS20-0800S2S2SDAPHH06.0.

Industrial Ethernet:Compact configurable managed switches:Fast Ethernet switches:Compact OpenRail Fast Ethernet Switch 4-24 ports, 1-2 fiber ports

Name Compact OpenRail Fast Ethernet Switch 4-24 ports, 1-2 fiber ports



8 port Fast-Ethernet-Switch, managed, software Layer 2 Professional, for DIN rail store-and-forward-switching, fanless design

Delivery informations

Document created at 09-12-2010

Availability available

Product description

Description 8 port Fast-Ethernet-Switch, managed, software Layer 2 Professional, for DIN rail store-and-forward-switching, fanless design

Port type and quantity 8 ports in total; 1. uplink: 100BASE-FX, SM-SC; 2. uplink: 100BASE-FX, SM-SC; 6 x standard 10/100 BASE TX, RJ45

Type RS20-0800S2S2SDAPHH06.0.

Order No. 943 434-020

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

Single mode fiber (SM) 9/125 µm 0 - 32,5 km, 16 dB link budget at 1300 nm, A = 0,4 dB/km, 3 dB reserve, D = 3,5 ps/(nm x km)

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 321 mA

Current consumption at 48 V DC 161 mA

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, relay contact, RMON, port mirroring 1:1 and n:1, topology discovery 802.1AB, cable tester (TX), address conflict detection, network error detection, SFP diagnostic (temperature, optical input and output power), Trap for configuration saving and changing, duplex mismatch detection, disable learning

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), integrated DHCP server per port, automatic invalid configuration undo

Security Port Security (IP und MAC) with multiple addresses, SNMP V3, SSH, authentication (IEEE802.1x), radius authentication for SNMPv3 (web)

Redundancy functions HIPER-Ring, MRP, MSTP, RSTP - IEEE802.1D-2004, MRP and RSTP in parallel, link aggregation

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, multicast GMRP IEEE 802.1D

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 client/server, PTP / IEEE 1588, realtime watch 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

Presettings Standard

Ambient conditions

Operating temperature 0 °C - 60 °C

Storage/transport temperature -40 °C - 70 °C

Relative humidity (non-condensing) 10 % - 95 %



Industrial Ethernet: Compact configurable managed switches: Fast Ethernet switches: Compact OpenRail Fast Ethernet Switch 4-24 ports, 1-2 fiber ports	
MTBF	31.6 years (MIL-HDBK-217F)
Protective paint on PCB	No
Mechanical construction	
Dimensions (W x H x D)	74 mm x 131 mm x 111 mm
Mounting	DIN Rail
Weight	410 gram
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	cUL 1604 Class1 Div 2
Shipbuilding	n/a
Railway norm	n/a
Substation	n/a
Scope of delivery and accessories	
Scope of delivery	Device, terminal block, operating manual