



RS40-0009CCCCSDAPHH02.0.

Industrial Networking:Industrial Ethernet:RS40 Full Gigabit:Switches Release 2.0

Product description

Description	ETHERNET/Fast ETHERNET/Gigabit Ethernet-switch according to IEEE 802.3 compact, managed, Industrial switch for DIN rail, store-and-forward-switching, fanless design, Software Layer 2 Professional
Port type and quantity	Gigabit ETHERNET ports in total: 9; 4 x Combo ports (10/100/1000BASE TX RJ45 plus related FE/GE-SFP slot); 5 x 10/100/1000BASE TX RJ45
Type	RS40-0009CCCCSDAPHH02.0.
Order No.	RS40-0009CCCCSDAPHH02.0.

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 to connect auto-configuration adapter ACA21-USB

Network size - length of cable

Twisted pair (TP)	0 - 100m
Multimode fiber (MM) 50/125 µm	0 - 550m, 0 - 7,5 dB link budget (with M-SFP-SX/LC)
Multimode fiber (MM) 62.5/125 µm	0 - 275m, 0 - 7,5 dB link budget (with M-SFP-SX/LC)
Single mode fiber (SM)9/125 µm	0 - 20km, 0 - 11 dB link budget (with M-SFP-LX/LC)
Single mode fiber (LH)9/125 µm (long haul transceiver)	16 - 80km, 6 - 22 dB link budget (with M-SFP-LH/LC) 44 - 120km, 13 - 32 dB link budget (with M-SFP-LH+/LC)

Network size - cascadability

Line - / star topology	Any
Ring structure (HIPER-Ring)	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
Current consumption at 24 V DC	770 mA
Current consumption at 48 V DC	385 mA
Power output in Btu (IT) h	64

Software

Management	Serial interface, web-interface, SNMP V1/V2, HiVision file transfer SW HTTP/TFTP
Diagnostics	LEDs, log-file, syslog, signal contact, RMON, port mirroring, topology discovery 802.1AB, cable tester
Configuration	Command line interface (CLI), TELNET, BootP, DHCP, DHCP option 82, HiDiscovery, auto-configuration adapter (ACA21-USB, ACA11 read support)
Security	Port security (IP and MAC), SNMP V3, SSH, authentication (802.1x)
Redundancy functions	HIPER-ring (ring structure), RSTP 802.1w, redundant network/ring coupling, link aggregation, redundant 24 V power supply
Filter	QoS 4 classes, port priority (IEEE 802.1D/p), VLAN (IEEE 802.1Q), multicast (IGMP snooping/querier), unknown multicast detection, broadcast-, unicast-, multicast limiter, fast aging, GMRP IEEE 802.1D
Realtime	SNTP server, PTP / IEEE 1589
Flow control	Flow control 802.3x

Ambient conditions

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

Mechanical construction

Dimensions (W x H x D)	74 x 131 x 111
Mounting	DIN Rail
Weight	530 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.; 0.7g, 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 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 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	optional
Substation	optional
Railway norm	optional

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