




## HIRSCHMANN

A BELDEN BRAND

### Product information Compact OpenRail Full Gigabit Ethernet Switch 9 ports - RS40-0009CCCCSDAEHH08.0.

Industrial Ethernet: Compact configurable managed switches: with Firmware Release 8: Compact OpenRail Full Gigabit Ethernet Switch 9 ports

<b>Name</b>		Compact OpenRail Full Gigabit Ethernet Switch 9 ports
		
		9 port Full Gigabit-Ethernet-Switch, managed, software Layer 2 Enhanced, for DIN rail store-and-forward-switching, fanless design
<b>Delivery informations</b>		
<b>Availability</b>	available	
<b>Product description</b>		
<b>Description</b>	9 port Full Gigabit-Ethernet-Switch, managed, software Layer 2 Enhanced, for DIN rail store-and-forward-switching, fanless design	
<b>Port type and quantity</b>	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	
<b>Type</b>	RS40-0009CCCCSDAEHH08.0.	
<b>Order No.</b>	943 935-001	
<b>More Interfaces</b>		
<b>Power supply/signaling contact</b>	1 x plug-in terminal block, 6-pin	
<b>V.24 interface</b>	1 x RJ11 socket	
<b>USB interface</b>	1 x USB to connect the AutoConfiguration Adapter ACA21-USB	
<b>Network size - length of cable</b>		
<b>Twisted pair (TP)</b>	0 m ... 100 m	
<b>Multimode fiber (MM) 50/125 µm</b>	0 - 550m, 0 - 7,5 dB link budget (with M-SFP-SX/LC)	
<b>Multimode fiber (MM) 62.5/125 µm</b>	0 - 275m, 0 - 7,5 dB link budget (with M-SFP-SX/LC)	
<b>Single mode fiber (SM) 9/125 µm</b>	0 - 20km, 0 - 11 dB link budget (with M-SFP-LX/LC)	
<b>Single mode fiber (LH) 9/125 µm (long haul transceiver)</b>	16 - 80km, 6 - 22 dB link budget (with M-SFP-LH/LC) 44 - 120km, 13 - 32 dB link budget (with M-SFP-LH+/LC)	
<b>Network size - cascading</b>		
<b>Line - / star topology</b>	any	
<b>Ring structure (HIPER-Ring) quantity switches</b>	50 (reconfiguration time < 0.3 sec.)	
<b>Power requirements</b>		
<b>Operating voltage</b>	12/24/48 V DC (9,6-60) V and 24 V AC (18-30) V	
<b>Power output in Btu (IT) h</b>	62.0	
<b>Software</b>		
<b>Management</b>	Serial interface, web interface, SNMP V1/V2, HiVision file transfer SW HTTP/TFTP	
<b>Diagnostics</b>	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.	
<b>Configuration</b>	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)	
<b>Security</b>	Port Security (IP und MAC) with multiple addresses, SNMP V3 (no encryption)	
<b>Redundancy functions</b>	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	
<b>Filter</b>	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	
<b>Industrial Profiles</b>	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	
<b>Time synchronisation</b>	SNTP client/server, PTP / IEEE 1588	
<b>Flow control</b>	Flow control 802.3x, port priority 802.1D/p, priority (TOS/DIFFSERV)	
<b>Presettings</b>	Standard	
<b>Ambient conditions</b>		
<b>Operating temperature</b>	0 °C ... 60 °C	



## HIRSCHMANN

A BELDEN BRAND

### Industrial Ethernet: Compact configurable managed switches: with Firmware Release 8: Compact OpenRail Full Gigabit Ethernet Switch 9 ports

<b>Storage/transport temperature</b>	-40 °C ... 70 °C
<b>Relative humidity (non-condensing)</b>	10 % ... 95 %
<b>Protective paint on PCB</b>	No
<b>Mechanical construction</b>	
<b>Dimensions (W x H x D)</b>	74 mm x 131 mm x 111 mm
<b>Mounting</b>	DIN Rail
<b>Weight</b>	530 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

The information published in the websites has been compiled as carefully as possible. It is subject to alteration without notice in technical as well as in price-related/commercial respect. The complete information and data were available on user documentation. Mandatory information can only be obtained by a concrete query.