



**Product:** RSB20-0900MMM2SAABHH

**Configurator:** RSB - Rail Switch Basic

### Configurator Description

The RSB20 portfolio offers users a quality, hardened, reliable communications solution that provides an economically attractive entry into the segment of managed switches.

### Technical Specifications

#### Product description

Description	Compact, managed Ethernet/Fast Ethernet Switch according to IEEE 802.3 for DIN Rail with Store-and-Forward-Switching and fanless design
Part Number	942014007
Port type and quantity	9 ports in total 1. uplink: 2 x 100BASE-FX, MM-SC 2. uplink: 100BASE-FX, MM-SC 6 x standard 10/100 BASE TX, RJ45

#### More Interfaces

Power supply/signaling contact	1 x plug-in terminal block, 6-pin
V.24 interface	1 x RJ11 socket

#### Network size - length of cable

Twisted pair (TP)	0-100 m
Multimode fiber (MM) 50/125 $\mu$ m	1. uplink: 0-5000 m, 8 dB Link Budget at 1300 nm, A=1 dB/km, 3 dB Reserve, B = 800 MHz x km 2. uplink: 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 $\mu$ m	1. uplink: 0 - 4000 m, 11 dB Link Budget at 1300 nm, A = 1 dB/km, 3 dB Reserve, B = 500 MHz x km ; 2. uplink: 0 - 4000 m, 11 dB Link Budget at 1300 nm, A = 1 dB/km, 3 dB Reserve, B = 500 MHz 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	24V DC (18-32)V
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#### Software

Switching	Fast aging, Static unicast/multicast address entries, QoS / Port prioritization (802.1D/p), TOS/DSCP prioritization, IGMP Snooping/Querier (v1/v2/v3)
Redundancy	HIPER-Ring (Manager), HIPER-Ring (Ring Switch), Media Redundancy Protocol (MRP) (IEC62439-2), RSTP 802.1D-2004 (IEC62439-1)
Management	TFTP, LLDP (802.1AB), V.24, HTTP, Traps, SNMP v1/v2/v3
Diagnostics	Signal contact, Device Status Indication, LEDs, RMON (1,2,3,9), Port Mirroring 1:1, System information, Self tests on cold start, SFP management (temperature, optical input and output power)
Configuration	Auto-Configuration Adapter ACA11 limited support (RS20/30/40,MS20/30), Automatic configuration undo (roll-back), Auto-Configuration Adapter ACA11 full support, BOOTP/DHCP client with auto configuration, HiDiscovery, DHCP Relay with Option 82, Command Line Interface (CLI), Full featured MIB support, WEB based management, Context sensitive help
Security	Local user management
Time synchronisation	SNTP Client, SNTP Server
Miscellaneous	Manual cable crossing
Presettings	Standard

#### Ambient conditions

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

### Mechanical construction

Dimensions (WxHxD)	74 mm x 131 mm x 111 mm
Weight	410 g
Mounting	DIN rail
Protection class	IP20

### Mechanical stability

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
IEC 60068-2-27 shock	15 g, 11 ms duration, 18 shocks

### 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

EN 55032	EN 55032 Class A
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### Approvals

Basis Standard	CE, FCC, EN61131
Safety of industrial control equipment	cUL 508
Hazardous locations	ISA 12.12.01 Class 1 Div. 2

### Scope of delivery and accessories

Accessories	Rail Power Supply RPS 30, RPS 60, RPS90 or RPS 120, terminal cable, network management Industrial HiVision, auto-configuration adapter ACA11-RJ11 EEC, 19" installation frame
Scope of delivery	Device, terminal block, general safety instructions

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