




Product information Compact OpenRail Fast Ethernet Switch 4-25 ports - RS20-1600M2M2SDAEHH09.0.

Industrial Ethernet: Compact configurable managed switches: with Classic Software 9.0: Compact OpenRail Fast Ethernet Switch 4-25 ports

<https://e-catalog.beldensolutions.com:443/link/57078-24455-49854-458702-458689/en/RS20-1600M2M2SDAEHH09.0/uistate>

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| Name | Compact OpenRail Fast Ethernet Switch 4-25 ports |
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| | 16 port Fast-Ethernet-Switch, managed, software Layer 2 Enhanced, for DIN rail store-and-forward-switching, fanless design |
| Delivery informations | |
| Availability | available |
| Product description | |
| Description | 16 port Fast-Ethernet-Switch, managed, software Layer 2 Enhanced, for DIN rail store-and-forward-switching, fanless design |
| Port type and quantity | 16 ports in total; 1. uplink: 100BASE-FX, MM-SC; 2. uplink: 100BASE-FX, MM-SC; 14 x standard 10/100 BASE TX, RJ45 |
| Type | RS20-1600M2M2SDAEHH09.0. |
| Order No. | 943 434-005 |
| 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 | |
| Multimode fiber (MM) 50/125 µm | 0 - 5000 m, 8 dB link budget at 1300 nm, A = 1 d/km, 3 dB reserve, B = 800 MHz x km |
| Multimode fiber (MM) 62.5/125 µm | 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 | 12/24/48 V DC (9,6-60) V and 24 V AC (18-30) V (redundant) |
| Current consumption at 24 V DC | 492 mA |
| Current consumption at 48 V DC | 246 mA |
| Power output in Btu (IT) h | 40.3 |
| Software | |
| Management | TFTP; LLDP (802.1AB); V.24; HTTP; Traps; SNMP v1/v2/v3; Telnet |
| Diagnostics | Management Address Conflict Detection; Address Relearn Detection; Signal Contact; Device Status Indication; LEDs; Syslog; Duplex Mismatch Detection; RMON (1,2,3,9); Port Mirroring 1:1; Port Mirroring 8:1; System Information; Self-Tests on Cold Start; SFP Management; Switch Dump |
| Configuration | AutoConfiguration Adapter ACA11 Limited Support (RS20/30/40, MS20/30); Automatic Configuration Undo (roll-back); Configuration Fingerprint; BOOTP/DHCP Client with Auto-Configuration; AutoConfiguration Adapter ACA21/22 (USB); HiDiscovery; DHCP Relay with Option 82; Command Line Interface (CLI); Full-featured MIB Support; Web-based Management; Context-sensitive Help |
| Security | IP-based Port Security; MAC-based Port Security; Access to Management restricted by VLAN; SNMP Logging; Local User Management |
| Redundancy functions | HIPER-Ring (Manager); HIPER-Ring (Ring Switch); Media Redundancy Protocol (MRP) (IEC62439-2); Redundant Network Coupling; RSTP 802.1D-2004 (IEC62439-1); RSTP Guards; RSTP over MRP |
| Industrial Profiles | EtherNet/IP Protocol; PROFINET IO Protocol |
| Time synchronisation | SNTP server and client |
| Miscellaneous | PoE (802.3AF); Manual Cable Crossing |
| Switching | Disable Learning (hub functionality); Independent VLAN Learning; Fast Aging; Static Unicast/Multicast Address Entries; QoS / Port Prioritization (802.1D/p); TOS/DSCP Prioritization; Egress Broadcast Limiter per Port; Flow Control (802.3X); VLAN (802.1Q); IGMP Snooping/Querier (v1/v2/v3) |
| Ambient conditions | |
| Operating temperature | 0 °C ... 60 °C |
| Storage/transport temperature | -40 °C ... 70 °C |
| Relative humidity (non-condensing) | 10 % ... 95 % |
| MTBF | 40.1 years (MIL-HDBK-217F) |



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|---------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| Protective paint on PCB | No |
| Mechanical construction | |
| Dimensions (W x H x D) | 110 mm x 131 mm x 111 mm |
| Mounting | DIN Rail |
| Weight | 600 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.; 0.7 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 | ISA 12.12.01 Class 1 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 |

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