

## Product information

### Compact OpenRail Fast Ethernet Switch 4-25 ports - RS20-1600S2S2SDAEHH07.0.

Industrial Ethernet:Archive - Industrial Ethernet:Compact configurable managed switches:with Firmware Release 7:Compact OpenRail Fast Ethernet Switch 4-25 ports

<http://e-catalog.hirschmann.com/link/57078-24455-49814-49854-173491-173293/en/RS20-1600S2S2SDAEHH07.0/uistate>

| Name                                          | Compact OpenRail Fast Ethernet Switch 4-25 ports                                                                                                                                                                                       |
|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                               |                                                                                                                                                       |
|                                               | 16 port Fast-Ethernet-Switch, managed, software Layer 2 Enhanced, for DIN rail store-and-forward-switching, fanless design                                                                                                             |
| <b>Delivery informations</b>                  |                                                                                                                                                                                                                                        |
| Availability                                  | available                                                                                                                                                                                                                              |
| <b>Product description</b>                    |                                                                                                                                                                                                                                        |
| 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, SM-SC; 2. uplink: 100BASE-FX, SM-SC; 14 x standard 10/100 BASE TX, RJ45                                                                                                                      |
| Type                                          | RS20-1600S2S2SDAEHH07.0.                                                                                                                                                                                                               |
| Order No.                                     | 943 434-027                                                                                                                                                                                                                            |
| New version available                         | <a href="#">Click here for the latest version</a>                                                                                                                                                                                      |
| <b>More interfaces</b>                        |                                                                                                                                                                                                                                        |
| 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                                                                                                                                                                             |
| <b>Network size - length of cable</b>         |                                                                                                                                                                                                                                        |
| 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)                                                                                                                                           |
| <b>Network size - cascading</b>               |                                                                                                                                                                                                                                        |
| Line - / star topology                        | any                                                                                                                                                                                                                                    |
| Ring structure (HIPER-Ring) quantity switches | 50 (reconfiguration time < 0.3 sec.)                                                                                                                                                                                                   |
| <b>Power requirements</b>                     |                                                                                                                                                                                                                                        |
| 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                                                                                                                                                                                                                                   |
| <b>Software</b>                               |                                                                                                                                                                                                                                        |
| 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, topology discovery 802.1AB, disable learning, SFP diagnostic (temperature, optical input and output power, power in dBm)                                              |
| Configuration                                 | 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, |
| Security                                      | Port Security (IP und MAC) with multiple addresses, SNMP V3 (no encryption)                                                                                                                                                            |
| Redundancy functions                          | 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                                                                    |
| 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                                   |
| 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                                                                                                                                                                                                    |
| Flow control                                  | Flow control 802.3x, port priority 802.1D/p, priority (TOS/DIFFSERV)                                                                                                                                                                   |
| Presettings                                   | Standard                                                                                                                                                                                                                               |
| <b>Ambient conditions</b>                     |                                                                                                                                                                                                                                        |
| Operating temperature                         | 0 °C ... 60 °C                                                                                                                                                                                                                         |
| Storage/transport temperature                 | -40 °C ... 70 °C                                                                                                                                                                                                                       |
| Relative humidity (non-condensing)            | 10 % ... 95 %                                                                                                                                                                                                                          |

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|                                                   |                                                                                                                                                     |
|---------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>MTBF</b>                                       | 27.8 years (MIL-HDBK-217F)                                                                                                                          |
| <b>Protective paint on PCB</b>                    | No                                                                                                                                                  |
| <b>Mechanical construction</b>                    |                                                                                                                                                     |
| <b>Dimensions (W x H x D)</b>                     | 110 mm x 131 mm x 111 mm                                                                                                                            |
| <b>Mounting</b>                                   | DIN Rail                                                                                                                                            |
| <b>Weight</b>                                     | 600 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                                                                                                            |

For more information please contact:

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