



Product: RS20-0400S2T1SDAE

Configurator: RS20-0400S2T1SDAE

Configurator Description

Fast Ethernet Ports with/without PoE The RS20 compact OpenRail managed Ethernet switches can accommodate from 4 to 25 port densities and are available with different Fast Ethernet uplink ports – all copper, or 1, 2 or 3 fiber ports. The fiber ports are available in multimode and/or singlemode. Gigabit Ethernet Ports with/without PoE The RS30 compact OpenRail managed Ethernet switches can accommodate from 8 to 24 port densities with 2 Gigabit ports and 8, 16 or 24 Fast Ethernet ports. The configuration includes 2 Gigabit ports with TX or SFP slots. The RS40 compact OpenRail managed Ethernet switches can accommodate 9 Gigabit ports. The configuration includes 4 x Combo Ports (10/100/1000BASE TX RJ45 plus FE/GE-SFP slot) and 5 x 10/100/1000BASE TX RJ45 ports

Technical Specifications

Product description

| | |
|------------------------|---|
| Description | Managed Fast-Ethernet-Switch for DIN rail store-and-forward-switching, fanless design ; Software Layer 2 Enhanced |
| Part Number | 943434011 |
| Availability | Last Order Date: December 31st, 2023 |
| Port type and quantity | 4 ports in total: 2 x standard 10/100 BASE TX, RJ45 ; Uplink 1: 1 x 100BASE-FX, SM-SC ; Uplink 2: 1 x 10/100BASE-TX, RJ45 |

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 auto-configuration adapter ACA21-USB |

Network size - length of cable

| | |
|---------------------------------|--|
| Twisted pair (TP) | Port 1 - 4: 0 - 100 m Uplink 2: 0 - 100 m |
| Single mode fiber (SM) 9/125 µm | Uplink 1: 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) \\\ |

Network size - cascading

| | |
|---|------------------------------------|
| Line - / star topology | any |
| Ring structure (HIPER-Ring) quantity switches | 50 (reconfiguration time 0.3 sec.) |

Power requirements

| | |
|----------------------------|--|
| Operating Voltage | 12/24/48V DC (9,6-60)V and 24V AC (18-30)V (redundant) |
| Power consumption | max. 7.7 W |
| Power output in BTU (IT)/h | max. 26.3 |

Software

| | |
|---------------|--|
| 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) |
| Redundancy | 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 |
| 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, Password change on first login |

| | |
|----------------------|--|
| Time synchronisation | SNTP Client, SNTP Server |
| Industrial Profiles | EtherNet/IP Protocol, PROFINET IO Protocol |
| 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) | 47 mm x 131 mm x 111 mm |
| Weight | 400 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 |
| FCC CFR47 Part 15 | FCC 47CFR Part 15, Class A |

Approvals

| | |
|--|--|
| Basis Standard | CE, FCC, EN61131 |
| Safety of industrial control equipment | cUL 508 |
| Hazardous locations | cULus ISA12.12.01 class1 div.2 (cUL 1604 class1 div.2) |

Scope of delivery and accessories

| | |
|-------------------|--|
| Accessories | Rail Power Supply RPS30, RPS60, RPS90 or RPS120, Terminal Cable, Network Management Software Industrial HiVision, Auto configuration adapter (ACA21-USB), 19"-DIN rail adapter |
| Scope of delivery | Device, terminal block, General safety instructions |

Further Instructions

| | |
|-----------------------|---|
| Product Documentation | https://www.doc.hirschmann.com/index.html |
| Certificates | https://www.doc.hirschmann.com/certificates.html |

© 2023 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.