



Product: RSP20-11003Z6TT-STTZ9HSE2SXX.X.XX

Configurator: RSP - Rail Switch Power configurator

Configurator Description

The RSP series features hardened, compact managed industrial DIN rail switches with Fast and Gigabit speed options. These switches support comprehensive redundancy protocols like PRP (Parallel Redundancy Protocol), HSR (High-availability Seamless Redundancy), DLR (Device Level Ring) and FuseNet™ and provide an optimum degree of flexibility with several thousand variants.

Technical Specifications

Product description

| | |
|------------------------|---|
| Description | Managed Industrial Switch for DIN Rail, fanless design Fast Ethernet Type |
| Port type and quantity | 11 Ports in total: 8 x 10/100BASE TX / RJ45; 3 x SFP slot FE (100 Mbit/s) |

More Interfaces

| | |
|--------------------------------|--|
| Power supply/signaling contact | 2 x plug-in terminal block, 2-pin; 1 x plug-in terminal block, 2-pin |
| V.24 interface | 1 x RJ11 socket |
| SD-card slot | 1 x SD card slot to connect the auto configuration adapter ACA31 |

Network size - length of cable

| | |
|---|---|
| Twisted pair (TP) | 0-100 |
| Single mode fiber (SM) 9/125 µm | see SFP fiber module M-SFP-xx / M-Fast SFP-xx |
| Single mode fiber (LH) 9/125 µm (long haul transceiver) | see SFP fiber module M-SFP-xx / M-Fast SFP-xx |
| Multimode fiber (MM) 50/125 µm | see SFP fiber module M-SFP-xx / M-Fast SFP-xx |
| Multimode fiber (MM) 62.5/125 µm | see SFP fiber module M-SFP-xx / M-Fast SFP-xx |

Network size - cascadiability

| | |
|------------------------|-----|
| Line - / star topology | any |
|------------------------|-----|

Power requirements

| | |
|----------------------------|-----------------------------|
| Operating Voltage | 2 x 12/24 VDC (9.6 -32 VDC) |
| Power consumption | 17 W |
| Power output in BTU (IT)/h | 58 |

Software

| | |
|-------------|---|
| Switching | Independent VLAN Learning, Fast Aging, Static Unicast/Multicast Address Entries, QoS / Port Prioritization (802.1D/p), TOS/DSCP Prioritization, Interface Trust Mode, CoS Queue Management, Queue-Shaping / Max. Queue Bandwidth, Flow Control (802.3X), Egress Interface Shaping, Ingress Storm Protection, Jumbo Frames, VLAN (802.1Q), VLAN Unaware Mode, Voice VLAN, IGMP Snooping/Querier per VLAN (v1/v2/v3), Unknown Multicast Filtering, Multiple VLAN Registration Protocol (MVRP), Multiple MAC Registration Protocol (MMRP), Multiple Registration Protocol (MRP), Layer 2 Loop Protection |
| Redundancy | Link Aggregation with LACP, Link Backup, Media Redundancy Protocol (MRP) (IEC62439-2), RSTP 802.1D-2004 (IEC62439-1), RSTP Guards |
| Management | Dual Software Image Support, TFTP, SFTP, SCP, LLDP (802.1AB), LLDP-MED, SSHv2, V.24, HTTP, HTTPS, Traps, SNMP v1/v2/v3, Telnet OPC-UA Server |
| Diagnostics | Management Address Conflict Detection, MAC Notification, Signal Contact, Device Status Indication, TCPDump, LEDs, Syslog, Persistent Logging on ACA, Port Monitoring with Auto-Disable, Link Flap Detection, Overload Detection, Duplex Mismatch Detection, Link Speed and Duplex Monitoring, RMON (1,2,3,9), Port Mirroring 1:1, Port Mirroring 8:1, Port Mirroring N:1, System Information, Self-Tests on Cold Start, Copper Cable Test, SFP Management, Configuration Check Dialog, Switch Dump, Snapshot Configuration Feature |

| | |
|----------------------|---|
| Configuration | Automatic Configuration Undo (roll-back), Configuration Fingerprint, Text-based Configuration File (XML), BOOTP/DHCP Client with Auto-Configuration, DHCP Server: per Port, DHCP Server: Pools per VLAN, AutoConfiguration Adapter ACA31 (SD card), HiDiscovery, DHCP Relay with Option 82, Command Line Interface (CLI), CLI Scripting, Full-featured MIB Support, Web-based Management, Context-sensitive Help |
| Security | MAC-based Port Security, Port-based Access Control with 802.1X, Guest/unauthenticated VLAN, Integrated Authentication Server (IAS), RADIUS VLAN Assignment, Denial-of-Service Prevention, VLAN-based ACL, Ingress VLAN-based ACL, Basic ACL, Access to Management restricted by VLAN, Device Security Indication, Audit Trail, CLI Logging, HTTPS Certificate Management, Restricted Management Access, Appropriate Use Banner, Configurable Password Policy, Configurable Number of Login Attempts, SNMP Logging, Multiple Privilege Levels, Local User Management, Remote Authentication via RADIUS, User Account Locking |
| Time synchronisation | PTPv2 Transparent Clock two-step, PTPv2 Boundary Clock, Buffered Real Time Clock, SNTP Client, SNTP Server |
| Industrial Profiles | EtherNet/IP Protocol, IEC61850 Protocol (MMS Server, Switch Model), ModbusTCP, PROFINET IO Protocol |
| Miscellaneous | Manual Cable Crossing, Port Power Down |

Ambient conditions

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

Mechanical construction

| | |
|--------------------|-------------------------|
| Dimensions (WxHxD) | 90 mm x 164 mm x 120 mm |
| Weight | 1200 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) | 8 kV contact discharge, 15 kV air discharge |
| EN 61000-4-3 electromagnetic field | 35 V/m (80-2700 MHz); 1 kHz, 80% AM |
| EN 61000-4-4 fast transients (burst) | 4 kV power line, 4 kV data line |
| EN 61000-4-5 surge voltage | power line: 2 kV (line/earth), 1 kV (line/line), 1 kV data line IEC61000-4-5: power line 5 kV (line/earth) |
| EN 61000-4-6 Conducted Immunity | 3 V (10 kHz-150 kHz), 10 V (150 kHz-80 MHz) |
| EN 61000-4-16 mains frequency voltage | 30 V, 50 Hz continuous; 300 V, 50 Hz 1 s |

EMC emitted immunity

| | |
|----------|------------------|
| EN 55032 | EN 55032 Class A |
|----------|------------------|

Approvals

| | |
|----------------|------------------|
| Basis Standard | CE, FCC, EN61131 |
|----------------|------------------|

Scope of delivery and accessories

| | |
|-------------------|---|
| Accessories | Rail power supply RPS 30, RPS 80 EEC, RPS 120 EEC, terminal cable, network management Industrial HiVision, auto-configuration adapter ACA31, 19" installation frame |
| Scope of delivery | Device, terminal blocks, General safety instructions |

Further Instructions

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

© 2022 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.