HIRSCHMANN
A BELDEN BRAND



Product: RSP35-08033O6TT-SCCZ9HPE2AXX.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, Gigabit uplink type - Enhanced (PRP, Fast MRP, HSR, NAT (-FE only) with L3 type)
Port Type and Quantity	11 Ports in total: 3 x SFP slots (100/1000 Mbit/s); 8x 10/100BASE TX / RJ45

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 - cascadibility

Line - / star topology	any

Power requirements

Operating Voltage	2 x 24/36/48 VDC (18 -60 VDC)
Power Consumption	19 W
Power output in BTU (IT)/h	65

Software

Switching	CoS Queue Management, Egress Interface Shaping, Fast Aging, Flow Control (802.3X), Forward unknown multicast to query ports, IGMP Snooping/Querier per VLAN (v1/v2/v3), Independent VLAN Learning, Ingress Storm Protection, Interface Trust Mode, Jumbo Frames, Multiple MAC Registration Protocol (MMRP), Multiple Registration Protocol (MRP), Multiple VLAN Registration Protocol (MVRP), QoS / Port Prioritization (802.1D/p), Queue-Shaping / Max. Queue Bandwidth, Static Unicast/Multicast Address Entries, TOS/DSCP Prioritization, Unknown Multicast Filtering, VLAN (802.1Q), VLAN Unaware Mode, Voice VLAN, Double VLAN Tagging (QinQ), GARP Multicast Registration Protocol (GMRP), GARP VLAN Registration Protocol (GVRP), IP Ingress DiffServ Classification and Policing, IP subnet-based VLAN, MAC-based VLAN, Protocol-based VLAN
Redundancy	HSR 1 GBit/s, Link Aggregation with LACP, Link Backup, Media Redundancy Protocol (MRP) (IEC62439-2) - Redundancy Client, Media Redundancy Protocol (MRP) (IEC62439-2) - Redundancy Manager, PRP 1 GBit/s, RSTP 802.1D-2004 (IEC62439-1), RSTP Guards, HIPER-Ring (Ring Switch), HIPER-Ring over Link Aggregation, MRP over Link Aggregation, MSTP (802.1Q), Redundant Network Coupling, Sub Ring Manager, Fast MRP (IEC62439-2), High Availability Seamless Redundancy Protocol (HSR) (IEC62439-3) - HSR-PRP RedBox, High Availability Seamless Redundancy Protocol (HSR) (IEC62439-3) - SAN RedBox, Parallel Redundancy Protocol (PRP) (IEC62439-3) - SAN RedBox

Management	Dual Software Image Support, TFTP, SFTP. SCP. LLDP (802.1AB), LLDP-MED, SSHv2, V.24, HTTP, HTTPS, Traps, SNMP v1/v2/v3, Telnet, DNS Client, ITxPT Module Inventory, OPC-UA Server, Service Discovery (bonjour), SNMPv1/v2 Read-Only
Diagnostics	Configuration Check Dialog, Copper Cable Test, Device Status Indication, Duplex Mismatch Detection, LEDs, Link Flap Detection, Link Speed and Duplex Monitoring, MAC Notification, Management Address Conflict Detection, Overload Detection, Persistent Logging on ACA, Port Mirroring 1:1, Port Mirroring 8:1, Port Mirroring N:1, Port Monitoring with Auto-Disable, RMON (1,2,3,9), Self-Tests on Cold Start, SFP Management, Signal Contact, Snapshot Configuration Feature, Switch Dump, Syslog, System Information, TCPDump, Email Notification, Loop Protection, RSPAN, SFLOW, VLAN Mirroring
Configuration	Auto Disable, AutoConfiguration Adapter ACA31 (SD card), Automatic Configuration Undo (roll-back), Backup config on a remote server when saving, BOOTP/DHCP Client with Auto-Configuration, Clear config but keep IP settings, CLI script handling over ENVM at boot, CLI Scripting, Command Line Interface (CLI), Configuration Fingerprint, Context-sensitive Help, DHCP Relay with Option 82, DHCP Server: per Port, DHCP Server: Pools per VLAN, Full-featured MIB Support, HiDiscovery, HTML5 based Management, Web-based Management, XML-based Configuration File, Interface Shutdown via Tracking
Security	Access to Management restricted by VLAN, Appropriate Use Banner, Audit Trail, CLI Logging, Configurable Number of Login Attempts, Configurable Password Policy, Denial-of-Service Prevention, Device Security Indication, Guest/unauthenticated VLAN, HTTPS Certificate Management, Ingress VLAN-based ACL, Integrated Authentication Server (IAS), Local User Management, MAC-based Port Security, Multiple Privilege Levels, Password change on first login, Port-based Access Control with 802.1X, RADIUS Client, RADIUS VLAN Assignment, Remote Authentication via RADIUS, Restricted Management Access, Signed Firmware Images, SNMP Logging, User Account Locking, VLAN-based ACL, ACL Flow-based Limiting, DHCP Snooping, Dynamic ARP Inspection, Format options for MAC authentication bypass, Ingress IPv4-based ACL, Ingress MAC-based ACL, LDAP, MAC Authentication Bypass, Multi-Client Authentication per Port, RADIUS Policy Assignment, Time-based ACL
Time synchronisation	802.1AS, 802.1AS-2020, Buffered Real Time Clock, PTPv2 Boundary Clock, PTPv2 Transparent Clock two-step, SNTP Client, SNTP Server
Industrial Profiles	EtherNet/IP Protocol, IEC61850 Protocol (MMS Server, Switch Model), Modbus TCP, PROFINET Protocol
Miscellaneous	Manual Cable Crossing, Port Power Down

Ambient conditions

Operating temperature	0-+60
Minimum Storage 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
Mount Type	DIN rail
IP Protection Rating	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 IEEE1613: 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 continous; 300 V, 50 Hz 1 s

EMC emitted immunity

EN 55032	EN 55032 Class A

Approvals

Basis Standard	CE, FCC, EN61131
Industrial Security	IEC 62443-4-2 Security Level 1

Reliability

Guarantee	60 months (please refer to the ""terms of guarantee or detailed information)

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 adpater ACA31, 19" installation frame
Included Accessory ID (CV)	
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

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