



**Product:** RED25-04002T1TT-SDDY9HPE2S

**Configurator:** RED25-04002T1TT-SDDY9HPE2S

### Configurator Description

Cost-effective Fast Ethernet redundancy entry-level switch supporting PRP and HSR, fast recovery with DLR, RSTP and MRP. This switch is offered in two, four-port versions: Four FE TX ports or two FE TX ports, plus two FE small form-factor pluggable (SFP) ports.

### Technical Specifications

#### Product description

Description	Managed, Industrial Switch DIN Rail, fanless design , Fast Ethernet type , with enhanced Redundancy (PRP, Fast MRP, HSR, DLR) , HiOS Layer 2 Standard
Software Version	HiOS 07.1.08
Part Number	942137001
Configurator Part Number	942137999
Port Type and Quantity	4 ports in total: 4x 10/100 Mbit/s Twisted Pair / RJ45

#### More Interfaces

Power supply/signaling contact	1 x 6-pin connector
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)	0 - 100 m
-------------------	-----------

#### Network size - cascading

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

#### Power requirements

Operating Voltage	12-48 VDC (nominal), 9.6-60 VDC (range) and 24 VAC (nominal), 18-30 VAC (range); (redundant)
Power consumption	7 W
Power output in BTU (IT)/h	24

#### Software

Switching	CoS Queue Management, Egress Interface Shaping, Fast Aging, Flow Control (802.3X), IGMP Snooping/Querier per VLAN (v1/v2/v3), Independent VLAN Learning, Ingress Storm Protection, Interface Trust Mode, Multiple MAC Registration Protocol (MMRP), Multiple Registration Protocol (MRP), Multiple VLAN Registration Protocol (MVRP), QoS / Port Prioritization (802.1D/p), Static Unicast/Multicast Address Entries, TOS/DSCP Prioritization, Unknown Multicast Filtering, VLAN (802.1Q), VLAN Unaware Mode, Voice VLAN
Redundancy	Link Aggregation with LACP, Link Backup, Media Redundancy Protocol (MRP) (IEC62439-2) - Redundancy Client, Media Redundancy Protocol (MRP) (IEC62439-2) - Redundancy Manager, RSTP 802.1D-2004 (IEC62439-1), RSTP Guards, Fast MRP (IEC62439-2), High Availability Seamless Redundancy Protocol (HSR) (IEC62439-3), Parallel Redundancy Protocol (PRP) (IEC62439-3)
Management	Dual Software Image Support, TFTP, SFTP, SCP, LLDP (802.1AB), LLDP-MED, SSHv2, V.24, HTTP, HTTPS, Traps, SNMP v1/v2/v3, Telnet
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, 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 ACA21/22 (USB), HiDiscovery, 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, 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, Password change on first login
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

## Ambient conditions

MTBF (Telcordia SR-332 Issue 3) @ 25°C	6 494 025 h
Operating temperature	0-+60 °C
Minimum Storage Temperature	-40-+70 °C
Relative humidity (non-condensing)	10-95 %

## Mechanical construction

Dimensions (WxHxD)	47 mm x 131 mm x 111 mm
Weight	300 g
Mount Type	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 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 continuous; 300 V, 50 Hz 1 s

## EMC emitted immunity

EN 55022	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	UL 61010-2-210

## Reliability

Guarantee	60 months (please refer to the terms of guarantee for detailed information)
-----------	---

## Scope of delivery and accessories

Accessories	Rail Power Supply RPS 15/30/80/120, Terminal Cable, Industrial HiVision, Auto configuration adapter (ACA 22)
Scope of delivery	Device, terminal block, General safety instructions

## Further Instructions

Product Documentation	<a href="https://www.doc.hirschmann.com/index.html">https://www.doc.hirschmann.com/index.html</a>
Certificates	<a href="https://www.doc.hirschmann.com/certificates.html">https://www.doc.hirschmann.com/certificates.html</a>
Software Download	<a href="https://my.belden.com/s/downloads">https://my.belden.com/s/downloads</a>

© 2025 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.