



## Product information

### RED25 - RED25-04002T1TT-SDDZ9HME2S07.0.

Industrial Ethernet:Power Rail Switches:RED25:with HiOS 6.0/7.0:RED25  
<https://www.e-catalog.beldensolutions.com:443/link/57078-24455-202442-436268-460725-460726/en/RED25-04002T1TT-SDDZ9HME2S07.0./uistate>

Name	RED25
	
	Managed, Industrial Switch DIN Rail, fanless design.Fast Ethernet type; Enhanced Redundancy (PRP, Fast MRP, HSR, DLR), HiOS Layer 2 Standard
<b>Delivery informations</b>	
Availability	available
<b>Product description</b>	
Description	Managed, Industrial Switch DIN Rail, fanless design.Fast Ethernet type; Enhanced Redundancy (PRP, Fast MRP, HSR, DLR), HiOS Layer 2 Standard
Port type and quantity	4 Ports in total, thereof Fast Ethernet(100 Mbit): 4x 10/100 Mbit/s Twisted Pair / RJ45
Type	RED25-04002T1TT-SDDZ9HME2S07.0.
Order No.	RED25-04002T1TT-SDDZ9HME2S07.0.
<b>More interfaces</b>	
Power supply/signaling contact	1 x 6-pin connector
V.24 interface	1 x RJ11 socket
<b>Network size - length of cable</b>	
Twisted pair (TP)	0 m ... 100 m
Multimode fiber (MM) 50/125 µm	see SFP Fiber Modules M-Fast SFP-xx
Multimode fiber (MM) 62.5/125 µm	see SFP Fiber Modules M-Fast SFP-xx
Single mode fiber (SM) 9/125 µm	see SFP Fiber Modules M-Fast SFP-xx
Single mode fiber (LH) 9/125 µm (long haul transceiver)	see SFP Fiber Modules M-Fast SFP-xx
<b>Network size - cascading</b>	
Line - / star topology	any
Ring structure, quantity switches	MRP, RSTP, HSR, DLR
<b>Power requirements</b>	
Operating voltage	12 - 48V DC (9,6-60)V and 24V AC (18-30)V (redundant)
Power consumption	7 W
Power output in Btu (IT) h	24
<b>Software</b>	
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; 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; 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; Automatic 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
Redundancy functions	Device Level Ring (DLR); Link Aggregation with LACP; Link Backup; Media Redundancy Protocol (MRP) (IEC62439-2); Fast MRP (IEC62439-2); High Availability Seamless Redundancy Protocol (HSR) (IEC62439-3); Parallel Redundancy Protocol (PRP) (IEC62439-3); RSTP 802.1D-2004 (IEC62439-1); RSTP Guards
Industrial Profiles	EtherNet/IP protocol, IEC61850 protocol (MMS Server, Switch Model), ModbusTCP, PROFINET IO Protocol
Time synchronisation	PTPv2 Transparent Clock two-step; PTPv2 Boundary Clock; Buffered Real Time Clock; SNTP Client; SNTP Server
Miscellaneous	Manual Cable Crossing, Port Power Down
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; Flow Control (802.3X); Egress Interface Shaping; Ingress Storm Protection; VLAN (802.1Q); VLAN Unaware Mode; Voice VLAN;



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	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)
<b>Ambient conditions</b>	
Operating temperature	0 °C ... 60 °C
Storage/transport temperature	-40 °C ... 70 °C
Relative humidity (non-condensing)	10 % ... 95 %
<b>Mechanical construction</b>	
Dimensions (W x H x D)	47 mm x 131 mm x 111 mm
Mounting	DIN Rail
Weight	320 g
Protection class	IP20
<b>Mechanical stability</b>	
IEC 60068-2-27 shock	15 g, 11 ms duration, 18 shocks
IEC 60068-2-6 vibration	3.5 mm, 5–8.4 Hz, 10 cycles, 1 octave/min; 1 g, 8.4–150 Hz, 10 cycles, 1 octave/min
<b>EMC interference immunity</b>	
EN 61000-4-2 electrostatic discharge (ESD)	4 kV contact discharge, 8 kV air discharge
EN 61000-4-3 electromagnetic field	10 V/m (80 - 3000 MHz); 1kHz, 80% AM
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	10 V (150 kHz-80 MHz)
<b>EMC emitted immunity</b>	
FCC CFR47 Part 15	FCC 47 CFR Part 15 Class A
EN 55022	EN 55022 Class A
<b>Approvals</b>	
Basis Standard	CE; FCC; EN61131
<b>Scope of delivery and accessories</b>	
Scope of delivery	device, power connector, documentation

For more information please contact:

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