

Product: [EES25-0600UHIHMH2E](#) 

Embedded Ethernet Switch with redundancy function Fast MRP



Product Description

Managed Fast Ethernet Switch according to IEEE 802.3, store-and-forward-switching

Technical Specifications

Product description

Description:	Managed Fast Ethernet Switch according to IEEE 802.3, store-and-forward-switching
Software Version:	HiOS 07.1.08
Part Number:	942050002
Port Type and Quantity:	6 x Fast Ethernet ports, configurable as 100BaseTX or 100BaseFX, RX+/RX-and TX+/TX- signals per port

More Interfaces

Control / Status:	RS232 (configuration), SPI (status), SNMP traps (alarm), SNMP
Host Interface:	2 x 50-pin male connectors

Network size - cascadability

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

Power requirements

Operating Voltage:	3.3 V DC +/- 5%
Power consumption:	4.6

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, Flow Control (802.3X), Egress Interface Shaping, Ingress Storm Protection, VLAN (802.1Q), VLAN Unaware Mode, 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)
Redundancy:	Link Aggregation with LACP, Link Backup, Media Redundancy Protocol (MRP) (IEC62439-2) - Redundancy Manager, Media Redundancy Protocol (MRP) (IEC62439-2) - Redundancy Client, 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
Management:	TFTP, SFTP, SCP, LLDP (802.1AB), SSHv2, V.24, HTTP, HTTPS, Traps, SNMP v1/v2/v3, Telnet
Diagnostics:	Management Address Conflict Detection, Device Status Indication, TCPDump, LEDs, Syslog, 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, 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, IRIG-B, 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:	-40-+85 °C
Protective paint on PCB:	Optional

Mechanical construction

Dimensions (WxHxD):	88 mm x 13 mm x 60 mm
Weight:	35 g

Reliability

Guarantee:	60 months (please refer to the https://assets.belden.com/m/1424ddb7a3280e7a/original/Hirschmann-Automation-and-Control-GmbH-Terms-of-Guarantee.pdf terms of guarantee &/a for detailed information)
------------	---

Scope of delivery and accessories

Accessories to Order Separately:	EES development kit – Order-No. 942 049-001
----------------------------------	---

Further Instructions

Product Documentation:	https://www.doc.hirschmann.com
Certificates:	https://www.doc.hirschmann.com/certificates.html
Software Download:	https://my.belden.com/s/downloads

History

Update and Revision:	Revision Number: 0.126 Revision Date: 07-25-2025
----------------------	--

Variants

Item #	Type
942050002	EES25-0600UHIHMH2E

© 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.