

**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                     |
| 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), 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                  |

Scope of delivery and accessories

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

Further Instructions

|                        |                                                                                                                 |
|------------------------|-----------------------------------------------------------------------------------------------------------------|
| Product Documentation: | <a href="https://www.doc.hirschmann.com">https://www.doc.hirschmann.com</a>                                     |
| Certificates:          | <a href="https://www.doc.hirschmann.com/certificates.html">https://www.doc.hirschmann.com/certificates.html</a> |

Variants

| Item #    | Type               |
|-----------|--------------------|
| 942050002 | EES25-0600UHIHMH2E |

|                      |                                                  |
|----------------------|--------------------------------------------------|
| Update and Revision: | Revision Number: 0.109 Revision Date: 03-10-2023 |
|----------------------|--------------------------------------------------|

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