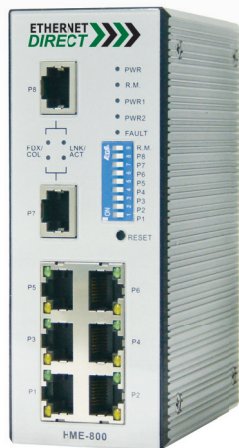


**HME-800**  
**HME-800E**

**Industrial Managed Ethernet Switch**

**Features**



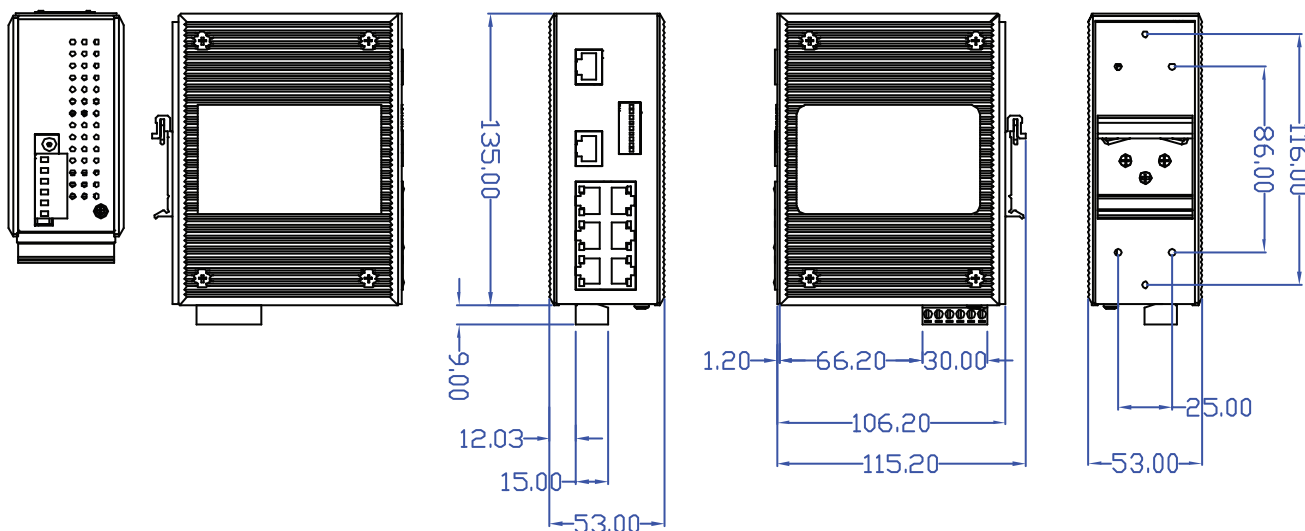
- ✓ **High Performance Network Switching Technology**
- ✓ Complies with IEEE 802.3, IEEE 802.3u, IEEE 802.3X, IEEE 802.1p, IEEE 802.1q, IEEE 802.1d, IEEE 802.1w,
- ✓ Provides 8 x 10/100 Mbps Ethernet ports with RJ-45 connector
- ✓ RJ-45 Port support auto MDI/MDI-X crossover
- ✓ Provides broadcast storm protection
- ✓ Redundant X-Ring recovery time < 300 ms on full load
- ✓ Supports Dual Homing – RSTP over X-ring
- ✓ SNMP for network management
- ✓ IGMP snooping for filtering multicast traffic
- ✓ QoS / ToS to increase network packet determinism
- ✓ VLAN for easy network planning
- ✓ Event notification by e-mail, SNMP trap, Syslog & Relay output
- ✓ Online Port Mirroring for online debugging
- ✓ IP security to define access levels for protection
- ✓ Configurable by WEB browser
- ✓ IntraVUE Network Management software compatible

- ✓ **Robust Industrial Design**
- ✓ Robust Aluminum case complying to IP-31 housing standard
- ✓ Supports operating temperature -10 to 70°C & Extended temperature -40 to 80°C
- ✓ DIN-Rail, Panel mount or desktop installation
- ✓ High level of immunity to electromagnetic interference & power supply surges typically found in industrial plant environments or external curb side enclosures
- ✓ **Reliable Power Design**
- ✓ Wide range redundant power design
- ✓ Equipped with redundant power inputs
- ✓ Supports 12 to 48VDC redundant power with polarity reverse protection
- ✓ Terminal block present for master and slave power

**Overview**

The Husky series HME-800 is a highly reliable and fault-tolerant Industrial 8-port Managed Ethernet Switch. It has 8 10/100TX RJ45 ports that support IEEE 802.3/802.3u/802.3x with 10/100M, full/half duplex, and MDI/MDI-X auto-sensing. With its high performance switching device, HME-800 provides redundant self-recovery mechanism in less than 300ms on full load which allows you to establish a redundant Ethernet network to build a back-up ring topology. With powerful network management functions, HME-800 can be remotely configured by Web browser, managed by SNMP and RMON. Event notification can be defined via SNMP trap, Syslog, Relay output or E-mail. Security is enhanced with advanced features like Port based VLAN, Tagged VLAN and IP security. Performance is optimized by Quality of Service and IGMP Snooping/querying. The HME-800 is equipped with a terminal block to provide dual power inputs with reverse polarity protection. Its IP-31 housing protection, wide operating temperature of -10 to 70°C and DIN-Rail mounting is suitable for an industrial environment. The E version extends the temperature rating to -40 to 80°C. The HME-800 is a plug-and-play solution for your Industrial Ethernet applications.

**Dimensions**



### Hardware Specifications

#### Interface

|                          |                                                                                                                            |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------|
| <b>RJ-45 Ports</b>       | 8 10/100Base-TX auto-negotiation speed, Full/Half duplex, auto MDI/MDI-X                                                   |
| <b>LEDs</b>              | Per port : Link/Activity (Green), Full duplex/Collision (Green)<br>Per unit: Power x 3 (Green), Fault (Red), R.M. (Orange) |
| <b>DIP Switch</b>        | X-ring, Master, Coupler, Reserve                                                                                           |
| <b>Alarm</b>             | Relay output for port break and power failure                                                                              |
| <b>Power Input</b>       | VDC 12-48V<br>Redundant power with polarity reverse protect function and removable terminal block                          |
| <b>Power Protection</b>  | ESD (Ethernet) : Present<br>Surge : 1500VDC<br>Power Reverse Polarity: Present                                             |
| <b>Power Consumption</b> | 3.5 watts                                                                                                                  |
| <b>Dimensions</b>        | IP-31 standard, 54 mm (W) x 135 mm (H) x 105 mm (D)                                                                        |
| <b>Installation</b>      | DIN-Rail, panel mounting or desktop                                                                                        |

#### Environmental

|                              |                                               |
|------------------------------|-----------------------------------------------|
| <b>Operating Temperature</b> | Regular: -10 to 70°C<br>Extended: -40 to 80°C |
| <b>Storage Temperature</b>   | -40 to 85°C (-40 to 185°F)                    |
| <b>Operating Humidity</b>    | 5%~90% RH (Non-condensing)                    |

### Technology Specifications

|                               |                                                                                                                                                                                                                                                                      |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Standard</b>               | IEEE 802.3 10Base-T Ethernet<br>IEEE 802.3u 100Base-TX Fast Ethernet<br>IEEE802.3x Flow Control and Back-pressure<br>IEEE 802.1p Class of service<br>IEEE 802.1Q VLAN<br>IEEE 802.1D Spanning Tree Protocol (STP)<br>IEEE 802.1W Rapid Spanning Tree Protocol (RSTP) |
| <b>Network Media</b>          | 10Base-T: 2-pair UTP/STP Cat. 3, 4, 5 cable EIA/TIA-568 100-ohm (100m)<br>100Base-TX: 2-pair UTP/STP Cat. 5/5e cable EIA/TIA-568 100-ohm (100m)                                                                                                                      |
| <b>Protocol Technology</b>    | CSMA/CD                                                                                                                                                                                                                                                              |
| <b>Switching Architecture</b> | Store and Forward                                                                                                                                                                                                                                                    |

### Performance

|                             |                                                                    |
|-----------------------------|--------------------------------------------------------------------|
| <b>Data Transfer Rate</b>   | 14,880 pps for Ethernet port<br>148,800 pps for Fast Ethernet port |
| <b>MAC Address</b>          | 2K                                                                 |
| <b>Memory Buffer</b>        | 1 Mbytes                                                           |
| <b>Back-plane</b>           | 1.6 Gbps                                                           |
| <b>Transfer Packet Size</b> | 64 bytes to 1522 bytes with VLAN tag                               |

### Regulatory Approvals

|                      |                                                                                                 |
|----------------------|-------------------------------------------------------------------------------------------------|
| <b>EMI</b>           | FCC Class A                                                                                     |
| <b>EMS</b>           | EN6100-4-2<br>EN6100-4-3<br>EN6100-4-4<br>EN6100-4-5<br>EN6100-4-6<br>EN6100-4-8<br>EN6100-4-11 |
| <b>Safety</b>        | UL, cUL, CE/EN60950                                                                             |
| <b>Shock</b>         | IEC60068-2-27                                                                                   |
| <b>Vibration</b>     | IEC60068-2-6                                                                                    |
| <b>Free Fall</b>     | IEC60068-2-32                                                                                   |
| <b>Class 1 DIV 2</b> | Pending *                                                                                       |
| <b>DNV</b>           | Pending *                                                                                       |
| <b>Environmental</b> | WEEE, RoHS                                                                                      |
| <b>MTBF</b>          | 325,000 hrs based on Mil-Hdbk-217F, GB                                                          |
| <b>Warranty</b>      | 5 years                                                                                         |

### Management Specifications

|                             |                                                                                                                                                                        |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Redundancy</b>           | Two ports of the switch supports X-ring redundant back-up path.<br>Recovery time less than 300ms on full load<br>Web interface management can activate X-ring protocol |
| <b>Management Protocols</b> | SNMP V1/V2c, RMON 1 (Statistics, History, Alarm, Events)<br>SMTP, SNTP, IGMP V1 & Query mode, DHCP/Client, TFTP                                                        |
| <b>MIB</b>                  | MIB-II, Bridge MIB, Ethernet like MIB, VLAN MIB, Private MIB                                                                                                           |
| <b>Configuration</b>        | Web interface management<br>Default button is available to restore default settings                                                                                    |
| <b>VLAN</b>                 | Support Port based VLAN and IEEE 802.1Q Tagged VLAN                                                                                                                    |

|                           |                                                    |
|---------------------------|----------------------------------------------------|
| <b>Quality of Service</b> | Hardware supports 4 queues per port                |
| <b>Port Mirroring</b>     | Online traffic monitoring on selected ports        |
| <b>IP Security</b>        | IP addresses are available to define access levels |
| <b>E-mail Warning</b>     | Pre-defined events                                 |

### Ordering Information

|                 |                                                                              |
|-----------------|------------------------------------------------------------------------------|
| <b>HME-800</b>  | Industrial 8-port Managed Ethernet Switch                                    |
| <b>HME-800E</b> | Industrial 8-port Managed Ethernet Switch, Extended Temperature -40 to 80 °C |

\*Extended temperature products are produced to order

### Recommended Accessories

|                  |                                       |
|------------------|---------------------------------------|
| <b>DR-4524</b>   | 45W/2A DIN-Rail 24 VDC power supply   |
| <b>DR-7524</b>   | 75W/3.2A DIN-Rail 24 VDC power supply |
| <b>DR-120-24</b> | 120W/5A DIN-Rail 24 VDC power supply  |



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