| **Husky** | **Managed Ethernet Series** |
|---|---|
| | **HME-621/621E and HME-623/623E** |

## *Overview*

The Husky managed Industrial Ethernet Switch is a highly reliable and fault-tolerant switch with powerful SNMP features required in Industrial Ethernet applications. HME-621 and HME-623 series can be remotely configured by web browser and managed by SNMP and RMON. Advanced features such as VLAN and IP security provide security functions while features like QoS and IGMP snooping and querying optimize performance.

Husky managed switch supports Super Ring self-recovery mechanism that allows the switch to self-reconfigure and provide a redundant path in the network. In case any part of your network is disrupted or disconnected, the redundant feature allows a fault recovery time of less than 300ms to save your network from encountering interruption or failure.

The switch provides a high level of immunity to electromagnetic interference and power supply surges typically found in industrial plant environments or external curb side enclosures.

## Key Features

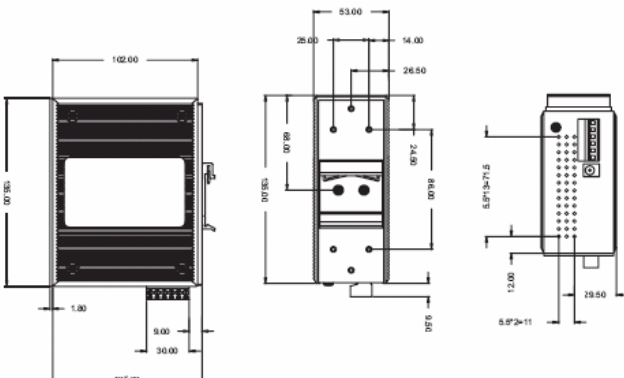- **Hardware Feature**

    Complies with IEEE 802.3, IEEE 802.3u,IEEE 802.3X, IEEE 802.1p, IEEE 802.1Q, IEEE 802.1D, IEEE 802.1W

    RJ-45 Port support auto MDI/MDI-X function

    Wide-range redundant power design

    Store and forward switch architecture

    DIN rail and 3-way wall mount design

- **Industrial Conformance**

    12 to 48V DC, redundant power with polarity reverse protection and terminal block for master and slave power

    -10 to 70 Degrees C operation temperature

    IP-31 standard Aluminum case

    EMI complies with FCC Class A, CE EN6100-4-2, CE EN6100-4-3, CE EN6100-4-4, CE EN6100-4-5 and CE EN6100-4-6, EN61000-4-8 and EN61000-4-11

    Stability testing with IEC60068-2-32(Free fall), IEC60068-2-27(Shock) and IEC60068-2-6(Vibration)

## Mechanical Dimension (in mm)

## Specifications

### Technology

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

### Performance

| | |
|---|---|
| **Network Data Transfer Rate** | 14,880 pps for Ethernet port and 148,800 pps for Fast Ethernet port |
| **MAC Address** | 2K |
| **Memory Buffer** | 1Mbytes |
| **Back-plane** | 1.6 Gbps |
| **Transfer packet size** | 64 bytes to 1522 bytes with VLAN tag |

### Interface

| | |
|---|---|
| **Number of Ports** | 6 x 10/100Base-TX + 2 x 100Base FX |
| **Diagnostic LED** | Per port : Link/Activity (Green), Full duplex/Collision (Green) |
| | Per unit: Power x 3 (Green), Fault (Red), R.M. (Orange) |
| **Optical cable** | SC (Multi Mode) : 50/125um to 62.5/125um |
| | SC (Single Mode) : 9/125um to 10/125um |
| **Distance & wavelength** | Multi Mode : Distance 2 km, Wavelength 1310nm |
| | Single Mode : Distance 30 km, Wavelength 1310nm |
| **Alarm** | Relay output for port break and power failure |

### Power

| | |
|---|---|
| **Power Supply** | 12 ~48 VDC, Redundant power with polarity reverse protect function and connective removable terminal block for master and slave power |
| **Reverse Polarity Protection** | Present |
| **Power Consumption** | 3.5 Watts |

### Mechanical

| | |
|---|---|
| **Case Dimensions (WxHxD)** | IP 31 standard, 54 mm (W) x 135 mm (H) x 105 mm (D) |
| **Installation** | Provide DIN rail kit and wall mount plate for 3-way installation |

### Environmental

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|---|---|
| **Operating Temperature** | -10 deg C to 70 deg C |
| **Storage Temperature** | -40 deg C to 85 deg C (-40 degF to 185 deg F) |
| **Operating Humidity** | 5%~90%RH (Non-condensing) |

### Regulatory Approvals

| | |
|---|---|
| **Emission** | FCC Class A, CE EN6100-4-2, CE EN6100-4-3, CE EN-6100-4-4, CE EN6100-4-5, CE EN6100-4-6, EN61000-4-8, EN61000-4-11 |
| **Safety** | UL, cUL, CE/EN60950 |
| **Shock** | IEC60068-2-27 |
| **Vibration** | IEC60068-2-6 |
| **Free Fall** | IEC60068-2-32 |

### Management Features

| | |
|---|---|
| **Redundancy** | 2 port of the switch supports Super Ring redundant back-up path. Recovery time less than 300ms. Web interface management can activate Super Ring. |
| **Management Protocols** | SNMP V1/V2c, RMON 1 (Statistics, History, Alarm, Events) |
| | SMTP, SNTP, IGMP V1 & Query mode, DHCP/Client, TFTP |
| **MIB** | MIB-II, Bridge MIB, Ethernet like MIB, VLAN MIB, Private MIB |
| **Configuration** | Web interface management |
| | Default button is available to restore default settings |

| VLAN | Support port-based VLAN and IEEE 802.1Q Tagged VLAN |
|---|---|
| Quality of Service | Hardware supports 4 queues per port |
| Port Mirroring | Online traffic monitoring on selected ports |
| IP Security | IP addresses are available to define access levels |
| E-mail warning | Pre-defined events |

## Ordering Information

HME-621   : Husky Industrial SNMP managed 6-port Ethernet Switch + 2-port 100Base-FX Multi mode
       (-10 to 70 deg C operating temperature)

HME-621E : Husky Industrial SNMP managed 6-port Ethernet Switch + 2-port 100Base-FX Multi mode
       (-40 to 80 deg C operating temperature – made to order)

HME-623   : Husky Industrial SNMP managed 6-port Ethernet Switch + 2-port 100Base-FX Single mode
       (-10 to 70 deg C operating temperature)

HME-623E : Husky Industrial SNMP managed 6-port Ethernet Switch + 2-port 100Base-FX Single mode
       (-40 to 80 deg C operating temperature – made to order)