ETHERNET DIRECT

The Direct Way to Industrial Ethernet

Husky

Managed Ethernet Series

HME-621/621E (6TX + 2 FX MM) **and HME-623/623E** (6TX + 2 FX SM)

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 a web browser and managed by SNMP and RMON. Advanced features such as VLAN and IP security provide security functions while performance is optimized by features like QoS and IGMP snooping and querying.

The Husky managed switch supports the **X Ring** redundancy which allows the switch to 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 an interruption or failure. E versions extend the operating temperature to -40C to 80C.

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

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

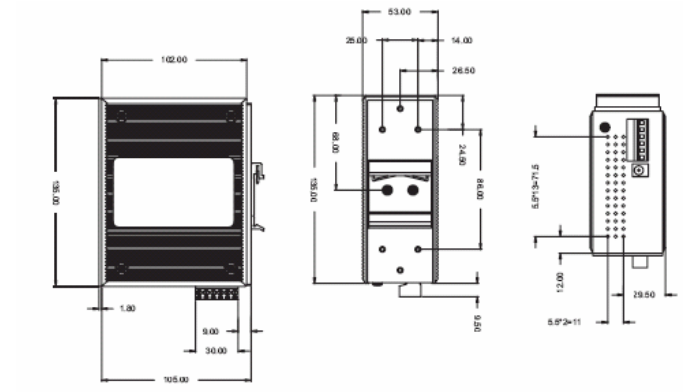
  -10 to 70 Degrees C operation temperature E version -40 to 80 Degrees C operation temperature

  IP-30 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 HME-621/621E (6TX + 2 FX MM) HME-623/623E (6TX + 2 FX SM)
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 30 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	
Operating Temperature	-10 deg C to 70 deg C E version -40 deg C to 80 deg C
Storage Temperature	-40 deg C to 85 deg C (-40 deg F 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 Class 1 Div. 2 pending
Shock	IEC60068-2-27
Vibration	IEC60068-2-6
Free Fall	IEC60068-2-32
Management Features	
Redundancy	2 ports of the switch supports X Ring redundant back-up path. Recovery time less than 300ms. Web interface management can activate the Husky 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 Reset button is available to restore default settings

VLAN	Supports 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 8-port Ethernet Switch + 2-port 100Base-FX Multi mode
(-10 to 70 deg C operating temperature)

HME-621E : Husky Industrial SNMP managed 8-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 8-port Ethernet Switch + 2-port 100Base-FX Single mode
(-10 to 70 deg C operating temperature)

HME-623E : Husky Industrial SNMP managed 8-port Ethernet Switch + 2-port 100Base-FX Single mode
(-40 to 80 deg C operating temperature – made to order)