



**HME-621**  
**HME-621E**

### 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 6 x 10/100 Mbps Ethernet ports with RJ-45 connector
- ✓ Provides 2 x 100 Mbps multi-mode SC type fiber port
- ✓ 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 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
- ✓ Supports IP security
- ✓ 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 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
- ✓ Removable terminal block



### Overview

The Husky Series HME-621 is a highly reliable and fault-tolerant Industrial 8-port Managed Ethernet Switch with six 10/100 Mbps Ethernet ports and two multi-mode fiber ports. With the optic port, HME-621 transmits data at high speed for long distances up to 2 km with an SC connector. With its high performance switching device, HME-621 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-621 can be remotely configured by Web browser, and managed by SNMP. 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-621 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-621 is a plug-and-play solution for your Industrial Ethernet applications.

### Hardware Specifications

#### Interface

**RJ-45 Ports:** 6 10/100Base-TX auto-negotiation speed, Full/Half duplex, auto MDI/MDI-X

**Fiber Ports:** 2 100Base-FX multi-mode port (SC connector)

**LEDs:** Per port : Link/Activity (Green), Full duplex/Collision (Green)  
Per unit: Power x 3 (Green), Fault (Red), R.M. (Orange)

**DIP Switch:** X-ring, Master, Port break alarm

**Alarm:** Relay output for port break and power failure

**Power Input:** VDC 12-48V  
Redundant power with removable terminal block

**Power Protection:** Power Reverse Polarity

**Power Consumption:** 6.9 watts

**Dimensions:** IP-31 standard, 54 mm (W) x 135 mm (H) x 105 mm (D)

**Installation:** DIN-Rail, panel mounting or desktop

#### Environmental

**Operating Temp:** Regular: -10 to 70°C  
Extended: -40 to 80°C

**Storage Temp:** -40 to 85°C (-40 to 185°F)

**Operating Humidity:** 5% to 90% RH (non-condensing)

## Technical Specifications

### Standard:

IEEE 802.3 10Base-T Ethernet  
IEEE 802.3u 100Base-TX Fast Ethernet  
IEEE 802.3x 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. 5/5e cable EIA/TIA-568 100-ohm (100m)

**Protocol Technology:** CSMA/CD

**Switching Architecture:** Store and Forward

## Performance

### Data Transfer Rate:

14,880 pps for Ethernet port  
148,800 pps for Fast Ethernet port

**MAC Address:** 8K

**Memory Buffer:** 1 Mbytes

**System Log:** Supported

**Back-plane:** 1.6 Gbps

**Port Statistics:** Supported

**Flow Control:** Full-duplex and Back Pressure for Half-duplex

**Packet Filter:** Broadcast/Multi-cast/Unknown Broadcast storm packet filter

**Transfer Packet Throughput:** 1.19Mpps @ 64bytes

## Regulatory Approvals

**EMI:** FCC Class A

### EMS:

EN61000-4-2, EN61000-4-3, EN61000-4-4,  
EN61000-4-5, EN61000-4-6, EN61000-4-8, EN61000-4-11

**Safety:** UL, cUL, CE/EN60950

**Shock:** IEC60068-2-27

**Vibration:** IEC60068-2-6

**Free Fall:** IEC60068-2-32

**Class 1 DIV 2:** Pending\*

**DNV:** Pending \*

**Environmental:** WEEE, RoHS

**MTBF:** 325,000 hrs based on Mil-Hdbk-217F, GB

**Warranty:** 5 years

## Management Specifications

### Redundancy:

STP, RSTP  
Dual Homing, Ring Coupling  
X-Ring with recovery time < 300ms

### Management Protocols:

SNMP v1/v2c, SMTP, SNTP, IGMP v1/v2 & 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:

Port Based VLAN  
IEEE 802.1Q Tag VLAN (256 entries)  
VLAN ID (Up to 4K, VLAN ID can be assigned from 1 to 4096.)  
GVRP (256 Groups)\*  
Double Tag VLAN (Q in Q)\*  
Private VLAN\*

### Quality of Service:

The quality of service determined by port,  
Tag and IPv4 Type of service,  
IPv4/IPv6 Different Service\*

**Port Mirroring:** Support 3 mirroring types: "RX, TX and Both packet"

### IP Security:

Support 10 IP address accounts for system management security for Web, SNMP and Telnet management security to prevent intruder.

**IGMP Snooping:** v1 and v2, query mode, multicast group with 256 entries

**Class of Service:** Support IEEE802.1p class of service,  
per port provides 4 priority queues

**System Log:** Support System log record and remote system log server

**SNMP Trap:** Up to 3 Trap stations

Cold start, Port link up, Port link down, Authentication Failure,  
Private Trap for power status, Port Alarm configuration,  
Fault alarm, X-Ring topology change

**DNS:** Provide DNS client feature support Primary and Secondary DNS server\*

**SMTP:** Support SMTP Server and 6 e-mail accounts for receiving event alert

**SNTP:** Support SNTP to synchronize system clock in Internet