



HWE-623
HWE-623E

Features

- ✓ **High Performance Network Switching Technology**
- ✓ Complies with IEEE 802.3, IEEE 802.3u, IEEE 802.3X, IEEE 802.1p, IEEE 802.1q
- ✓ Provides 6 x 10/100 Mbps Ethernet ports with RJ-45 connector
- ✓ Provides 2 x 100 Mbps single-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
- ✓ IGMP snooping for multicast traffic
- ✓ QoS / ToS to increase network packet determinism
- ✓ VLAN for easy network planning
- ✓ Online Port Mirroring for online debugging
- ✓ Supports IP security
- ✓ Supports Port based and Tag VLAN
- ✓ **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 HWE-623 is a highly reliable and fault-tolerant Industrial 8-port Web-managed Ethernet Switch with six 10/100 Mbps Ethernet ports two single-mode fiber ports. With the optic port, HWE-623 transmits data at high speed for long distances up to 30 km with an SC connector. With its high performance switching device, HWE-623 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 a web-configuration interface, HWE-623 offers powerful features such as VLAN, IGMP, Quality of service, Port mirroring and IP security. The HWE-623 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 HWE-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 single-mode port (SC connector)

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

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

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

Power Protection: ESD (Ethernet)
Power Reverse Polarity

Power Consumption: 5.04 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
IEEE802.3x Flow Control and Back-pressure
IEEE 802.1p Class of service
IEEE 802.1Q VLAN

Performance

Data Transfer Rate:

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

MAC Address: 2K

Regulatory Approvals

EMI: FCC Class A

EMS:

EEN61000-4-2, 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

Management Specifications

Redundancy:

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

Configuration:

Web interface management
Default button is available to restore default settings

VLAN:

Port-based VLAN and IEEE 802.1Q Tagged VLAN

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

Memory Buffer: 1Mbytes

Back-plane: 1.6 Gbps

Transfer Packet Throughput: 1.19Mpps @ 64bytes

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

Quality of Service: Hardware supports 4 queues per port

Port Mirroring: Online traffic monitoring on selected ports

IP Security: Supported