



HME-823
HME-823E

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, IEEE 802.1x, IEEE 802.3ad
- ✓ Provides 8 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 < 10 ms on full load
- ✓ Supports Dual Homing – RSTP over X-ring
- ✓ Supports Ring coupling
- ✓ 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 & 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 24 to 48VDC redundant power with polarity reverse protection
- ✓ Removable terminal block



Overview

The Husky Series HME-823 is a highly reliable and fault-tolerant Industrial 10-port Managed Ethernet Switch with eight 10/100 Mbps Ethernet ports and two single-mode fiber ports. With the optic port, HME-823 transmits data at high speed for long distances up to 30 km with an SC connector. With its high performance switching device, HME-823 provides redundant self-recovery mechanism in less than 10ms on full load which allows you to establish a redundant Ethernet network to build a back-up ring topology. Dual homing and Ring coupling are supported to add reliability by allowing a device to be connected to be network by way of two independent connection points. HME-823 offers powerful network management functions including SNMP, SMTP, STNP, Quality of Service, Class of Service, IGMP, Snooping, LACP, DHCP, VLAN, RMON, Port Trunk, Port Mirror, User Authentication (Radius) and IP Security. The HME-823 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-823 is a plug-and-play solution for your Industrial Ethernet applications.

Hardware Specifications

Interface

RJ-45 Ports: 8 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 (Green), Power 1 (Green), Power 2 (Green), Fault (Yellow), Master (Green)
8 port 10/100: Link/Activity (Green), Full duplex/Collision (Yellow)
Fiber: Link/Activity (Green)

Alarm: Relay output for port break and power failure
Current carry ability (1A at DC 24V)

Power Input: VDC 24-48V
Redundant power removable terminal block

Power Protection: ESD (Ethernet)
Surge: 1500VDC
Power Reverse Polarity

Power Consumption: 11.28 watts

Dimensions: IP-31 standard, 72 mm (W) x 152 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:

IEEE802.3 10BASE-T, IEEE802.3u 100BASE-TX/100BASE-FX
IEEE802.3x Flow Control and Back Pressure
IEEE802.3ad Port trunk with LACP
IEEE802.1d Spanning Tree Protocol
IEEE802.1w Rapid Spanning tree
IEEE802.1p Class of Service
IEEE802.1q VLAN Tagging
IEEE 802.1x User Authentication (Radius)

RFC Standard:

RFC2030 SNMP, RFC 2821 SMTP, RFC 1215 Trap, RFC2233 MIBII,
RFC 1157 SNMP MIB, RFC 1493 Bridge MIB, RFC 2674 VLAN MIB,
RFC 2665 Ethernet like MIB, RFC 2819 RMON MIB, Private MIB

Performance

Data Transfer Rate:

14,880 pps for Ethernet port
148,800 pps for Fast Ethernet port
1488,000 pps for Gigabit Ethernet port

MAC Address:

8k

Memory Buffer:

1Mbytes

System Log:

1000 Records

Back-plane:

2.0 Gbps

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

Management Specifications

Redundancy:

STP, RSTP
Dual Homing, Ring Coupling, Dual Ring*
X-Ring with recovery time < 10 ms

Management Protocols:

SNMP v1/v2c/v3, RMON, 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

VLAN:

Port-based VLAN/Tag VLAN (256 entries)
VLAN ID (Up to 4K)
GVRP (256 Groups)
Static VLAN groups up to 256, the VLAN ID can be assigned from 1 to 4094

Quality of Service:

Hardware supports 4 queues per port

Port Mirroring:

Online traffic monitoring on selected ports

MAC IP Security:

Ingress and egress MAC address filter and static source MAC address lock,
Dumping MAC address Table, Ingress/Egress MAC address security,

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)

Packet Filter:

Broadcast packet filtering
-Number of MAC (50 Tables)
-IP Address Security (10 Sections)

Protocol Technology:

CSMA/CD

Switching Architecture:

Store and Forward

Local Configuration:

RJ-45 connector for RS-232 interface

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:

3.87Mpps @ 64 bytes

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

IP Security:

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

LACP Port Trunk:

4 Trunk groups/Maximum 4 trunk members

Port Mirror:

Global system supports 3 mirroring types: "RX, TX and Both packet".

Maximum of 8 entries

Class of Service:

Per port 4 queues

Email Warning:

Pre-defined events

SNMP Trap:

Cold start, link down, link up, authorization fail,
X-Ring topology Change, Power alarm trap, Trap station up to 3

SMTP:

Up to 6 e-mail accounts

Firmware Upgrade:

By TFTP