Industrial 10-port Gigabit Unmanaged Ethernet Switch with Fiber Port

HUG-828

Features

High Performance Network Switching Technology

- √ Complies with IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3z
- √ Provides 8 x 10/100 Mbps Ethernet ports with RJ-45 connector
- √ Provides 2 combo ports
- √ RJ-45 Port support auto MDI/MDI-X crossover
- √ Provides broadcast storm protection

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 HUG-828 is a highly reliable and fault-tolerant Industrial 10-port Gigabit Unmanaged Ethernet Switch. It supports state of the art design with eight 10/100 Mbps Ethernet ports and two small form pluggable (SFP) ports that supports Gigabit SX or LX depending on your existing network structure.The innovative SFP fiber slot design provides user the flexibility to insert different fiber modules, either multi-mode or single-mode at various distances,whether you require typical 10km or overhaul 40 km, 80 km and 120 km distances. The HUG-828 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 HUG-828 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 combo ports

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)
Mini GBIC: Link/Activity (Green)
Giga Copper: Link/Activity (Green), speed (1000 Green)

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

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

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

Power Consumption: 10 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:
IEEE 802.3 10Base-T Ethernet
IEEE 802.3u 100Base-TX
IEEE802.3ab 1000Base-T
IEEE802.3z Gigabit fiber
IEEE802.3x Flow Control and Back Pressure

Network Media:
10Base-T: 2-pair UTP/STP Cat. 3, 4, 5/ 5E cable EIA/TIA-568 100-ohm (100m)
100Base-TX: 2-pair UTP/STP Cat. 5/ 5E cable EIA/TIA-568 100-ohm (100m)
1000Base-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
1,488,000pps for Gigabit Fiber Ethernet port

MAC Address: 8K

Memory Buffer: 4Mbytes

System Log: 1000 records

Back-plane: 5.6 Gbps

Transfer Packet Throughput:
14.88 Mpps @ 64 bytes

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