



HUG-500S
HUG-500SE

Features

- High Performance Network Switching Technology
- ✓ Complies with IEEE 802.3, IEEE 802.3u, IEEE 802.3X, IEEE 802.3ab
- ✓ Provides 5 x 10/100/1000 Mbps Ethernet ports with RJ-45 connector
- ✓ Supports IEEE 802.3X flow control on full duplex, back pressure on half duplex
- ✓ RJ-45 Port support auto MDI/MDI-X crossover
- ✓ Provides broadcast storm protection
- Robust Industrial Design**
- ✓ Robust Aluminum case complying to IP-30 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**
- ✓ Supports Redundant 12 - 48VDC power input
- ✓ Supports 4,000 VDC Ethernet ESD Protection
- ✓ Provides surge (EFT) protection 3,000 VDC for power line
- ✓ Power Polarity Reverse Protection
- ✓ Removable terminal block



Overview

The Husky Series Industrial 5-port Slim Unmanaged Gigabit Ethernet Switch is an entry-level industrial 5-port Gigabit Ethernet Switch that supports IEEE 802.3/802.3u/802.3x with 10/100/1000Mbps, full/half duplex and MDI/MDI-X auto-sensing RJ-45 ports. The compact, slim line switch is equipped with a relay output for an event alarm for easy troubleshooting. It offers a 12- 48 VDC redundant powers input design and is secured with Power Polarity Reverse protection and an Overload Current Reset-table Fuse. The IP-30 housing protection, wide operating temperature of -10 to 70°C and DIN rail mounting makes HUG-500S suitable for an industrial environment. The E version extends the temperature rating to -40 to 80°C. The HUG-500S is a plug-and-play solution for your Industrial Ethernet applications.

Hardware Specifications

Interface

RJ-45 Ports: 5 10/100/1000Base-TX auto-negotiation speed, Full/Half duplex, auto MDI/MDI-X

LEDs: Per unit: Power 1 (Green), Power 2 (Green), Fault (Red)
Per port: Link/Activity (Green), Speed (1000Mbps Green)

Power Input: 12 to 48 VDC,
Redundant power with removable terminal block

Power Protection: ESD (Ethernet)
Surge : 3000VDC
Power Reverse Polarity

Power Consumption: 5 watts

Dimensions: IP 30 standard, 30 mm (W) x 140 mm (H) x 95 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
IEEE 802.3ab 1000Base-T
IEEE 802.3x 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

Jumbo Frame: 9Kbytes

Memory Buffer: 1Mbytes

Back-plane: 10 Gbps

Transfer Packet Size:
14.88Mpps @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