

## Industrial 8-port Slim Gigabit Unmanaged Ethernet Switch



**HUG-800S**  
**HUG-800SE**

### Features

- ✓ **High Performance Network Switching Technology**
- ✓ Comply with IEEE 802.3, IEEE 802.3u, IEEE 802.3X, IEEE 802.3ab
- ✓ Provides 8 x 10/100/1000 Mbps Ethernet ports with RJ-45 connector
- ✓ RJ-45 Port support auto MDI/MDI-X crossover
- ✓ Provides broadcast storm protection
- ✓ Supports IEEE 802.3X flow control on full duplex, back pressure on half duplex
- ✓ **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 4000 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 8-port Slim Unmanaged Gigabit Ethernet Switch is an entry-level industrial 8-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, 6000 VDC EDS 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-800S suitable for an industrial environment. The E version extends the temperature rating to -40 to 80 °C. The HUG-800S is a plug-and-play solution for your Industrial Ethernet applications.

### Hardware Specifications

#### Interface

**RJ-45 Ports:** 8 10/100/1000Base-TX auto-negotiation speed, Full/Half duplex, auto MDI/MDI-X

**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 port break and power failure  
Current carry ability (1A at DC 24V)

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

**Power Protection:** ESD (Ethernet) : 6000 VDC  
Surge : 3000VDC  
Power Reverse Polarity

**Power Consumption:** 5.28 watts

**Dimensions:** IP 30 standard, 30 mm (W) x 95 mm (H) x 140 mm (D)

**Installation:** DIN Rail or wall mountable

#### 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  
100Base-FX Fast Ethernet  
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 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  
1,488,000pps for Gigabit Ethernet port

**MAC Address:** 8K

**Memory Buffer:** 512Kbits

**Back-plane:** 16 Gbps

**Transfer Packet Throughput:**  
23.8Mpps @64bytes

### 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

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

**Environmental:** WEEE, RoHS

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

**Warranty:** 5 years