



**HUE-413**  
**HUE-413E**

**Features**

- High Performance Network Switching Technology**
- ✓ Complies with IEEE 802.3, IEEE 802.3u, IEEE 802.3X
  - ✓ Provides 4 x 10/100 Mbps Ethernet ports with RJ-45 connector
  - ✓ Provides 1 x 100 Mbps single-mode SC type fiber port
  - ✓ 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-31 housing standard
  - ✓ Supports operating temperature -10 to 70°C & Extended temperature -40 to 80°C
  - ✓ DIN-Rail, panel mounting or desktop installation
  - ✓ High level of immunity to electromagnetic interference typically found in industrial plant environments or external curb side enclosures
- Reliable Power Design**
- ✓ Supports 12 to 48VDC redundant power with polarity reverse protection
  - ✓ Wide range redundant power design
  - ✓ Equipped with Redundant power inputs
  - ✓ Removable terminal block



**Overview**

The Husky HUE-413 series is an Industrial 5-port Unmanaged Ethernet Switch with four 10/100 Mbps Ethernet ports and one single-mode fiber port. With the optic port, HUE-413 transmits data at high speed for long distances up to 30 km with an SC connector. The entry-level industrial hardened Ethernet switch specifically designed to operate reliably in an electrically harsh, demanding environment, and in hazardous locations. The HUE-413 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 makes HUE-413 suitable for an industrial environment. The E version extends the temperature rating to -40 to 80°C. The HUE-413 is a plug-and-play solution for your Industrial Ethernet applications.

**Hardware Specifications**

**Interface**

**RJ-45 Ports:** 4 10/100Base-TX auto-negotiation speed, Full/Half duplex, auto MDI/MDI-X

**Fiber ports:** 1 100Base-FX single-mode port (SC connector)

**LEDs:** Per unit: Power x 3 (Green)  
Per port: Link/Active (Green), Full duplex/Collision (Green)

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

**Power Protection:** Power Reverse Polarity

**Power Consumption:** 3.7 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  
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

**MAC Address:** 1K

**Memory Buffer:** 512Kbytes

**Back-plane:** 1.0 Gbps

**Transfer Packet Throughput:**  
1.19Mpps @ 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