

# Industrial 5-port Unmanaged Ethernet Switch With Fiber Port



**HUE-411**  
**HUE-411E**

## 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 multi-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 Series HUE-411 is an Industrial 5-port Unmanaged Ethernet Switch with four 10/100 Mbps Ethernet ports and one multi-mode fiber port. With the optic port, HUE-411 transmits data at high speed for long distances up to 2 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-411 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-411 suitable for an industrial environment. The E version extends the temperature rating to -40 to 80°C. The HUE-411 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 multi-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:

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

**Class 1 DIV 2:** Pending\*

**DNV:** Pending \*

**Environmental:** WEEE, RoHS

### MTBF:

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

**Warranty:** 5 years