



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