



HUE-421S
HUE-421SE

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 2 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-30 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 & 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
- ✓ Alarm Relay design for power failure detection
- ✓ Power Polarity Reverse Protection
- ✓ Removable terminal block



Overview

The Husky Series HUE-421S Industrial 6-port Slim Unmanaged Ethernet Switch is an entry-level industrial Ethernet switch with two multi-mode fiber ports. With the optic port, HUE-421S transmits data at high speed for long distances up to 2 km with an SC connector. 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 HUE-421S suitable for an industrial environment. The E version extends the temperature rating to -40 to 80°C. The HUE-421S 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: 2 100Base-FX multi-mode port (SC connector)

LEDs: Per port: Link/Activity (Green), Full duplex/Collision (Yellow)
Per unit: Power 1 (Green), Power 2 (Green), Fault (Red)

Optical Fiber

Multi-mode: 50/125um~62.5/125um

Single-mode: 9/125um

Available distance: 2km (Multi-mode)/30km (Single-mode)

Wavelength: 1310nm (Multi-mode/Single-mode)

Power Input: DC 12-48V

Redundant power with removable terminal block

Power Consumption: 6.41 watts

Power Protection: ESD (Ethernet) : 4000 VDC
Surge : 3000 VDC
Power Reverse Polarity

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 Fast Ethernet

IEEE 802.3x Flow Control and Back-pressure

Connector:

10/100TX: 4 x RJ-45 with auto MDI/MDI-X function

100M fiber: 2 x SC type connector for Single-mode or Multi-mode type fiber cable

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 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: 2K

Memory Buffer: 512bits

Back-plane: 1.2 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