

**HUE-421S
HUE-421SE**

**Industrial 6-port Slim Unmanaged Ethernet Switch With
Fiber Port**



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

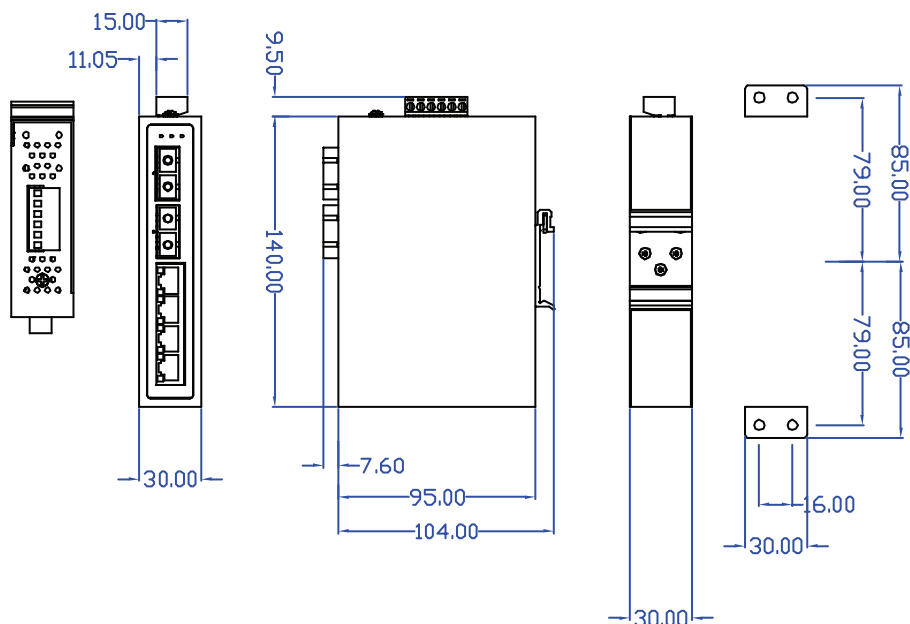
Reliable Power Design

- ✓ Supports Redundant 12-48VDC power input
- ✓ Supports 18-30 VAC power input
- ✓ Supports 4,000 VDC Ethernet ESD Protection
- ✓ Provides surge (EFT) protection 3,000 VDC for power line
- ✓ Alarm Relay design for power fail detection
- ✓ Power Polarity Reverse Protection Present
- ✓ Terminal block present for master and slave power

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.

Dimensions



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
Power Protection	ESD (Ethernet) : 4000 VDC Surge : 3000 VDC Power Reverse Polarity: Present
Power Consumption	6.41 watts
Dimensions	IP-30 standard, 30 mm (W) x 140 mm (H) x 95 mm (D)
Installation	DIN-Rail, panel mounting or desktop

Environmental

Operating Temperature	Regular: -10 to 70°C Extended: -40 to 80°C
Storage Temperature	-40 to 85°C (-40 to 185°F)
Operating Humidity	5%~90% RH (Non-condensing)

Technology Specifications

Standard	IEEE 802.3 10Base-T Ethernet IEEE 802.3u 100Base-TX Fast Ethernet IEEE802.3x 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 and 148,800 pps for Fast Ethernet port
MAC Address	2K
Memory Buffer	448Kbits
Back-plane	1.2 Gbps
Transfer packet size	1.488Mpps @ 64bytes

Regulatory Approvals

EMI	FCC Class A
EMS	EN6100-4-2 EN6100-4-3 EN6100-4-4 EN6100-4-5 EN6100-4-6 EN6100-4-8 EN6100-4-11
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	350,000 hrs based on Mil-Hdbk-217F, GB
Warranty	5 years

Optical Specifications

Model	Fiber type (um)	Connector	Wavelength (um)	TX Power (min)	TX Power (Max)	Rx Power (Min)	Rx Power (Max)	Link Budget (dbm)	Distance (km)
HUE-421S	Multi-mode 62.5/125	SC	1310nm	-19dBm	-14dBm	-31dBm	-14dBm	12dBm	2-3 km
HUE-421SE	Multi-mode 62.5/125	SC	1310nm	-19dBm	-14dBm	-31dBm	-14dBm	12dBm	2-3 km

Ordering Information

HUE-421S	Industrial 6-port Slim Unmanaged Ethernet Switch With 2 multi-mode SC fiber ports
HUE-421SE	Industrial 6-port Slim Unmanaged Ethernet Switch With 2 multi-mode SC fiber ports, Extended Temperature -40 to 80°C

*Extended temperature products are produced to order

Recommended Accessories

DR-4524	45W/2A DIN-Rail 24 VDC power supply
DR-7524	75W/3.2A DIN-Rail 24 VDC power supply
DR-120-24	120W/5A DIN-Rail 24 VDC power supply