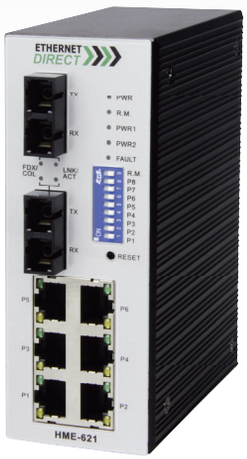
HME-621
HME-621E

Industrial Managed Ethernet Switch



Features

High Performance Network Switching Technology

- ✓ Complies with IEEE 802.3, IEEE 802.3u, IEEE 802.3X, IEEE 802.1p, IEEE 802.1q, IEEE 802.1d, IEEE 802.1w,
- ✓ Provides 6 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
- ✓ Redundant X-Ring recovery time < 300 ms on full load
- ✓ Supports Dual Homing – RSTP over X-ring
- ✓ SNMP for network management
- ✓ IGMP snooping for filtering multicast traffic
- ✓ QoS / ToS to increase network packet determinism
- ✓ VLAN for easy network planning
- ✓ Event notification by e-mail, SNMP trap, Syslog & Relay output
- ✓ Online Port Mirroring for online debugging
- ✓ IP security to define access levels for protection
- ✓ Configurable by WEB browser
- ✓ IntraVUE Network Management software compatible

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 mount or desktop installation
- ✓ High level of immunity to electromagnetic interference & power supply surges typically found in industrial plant environments or external curb side enclosures

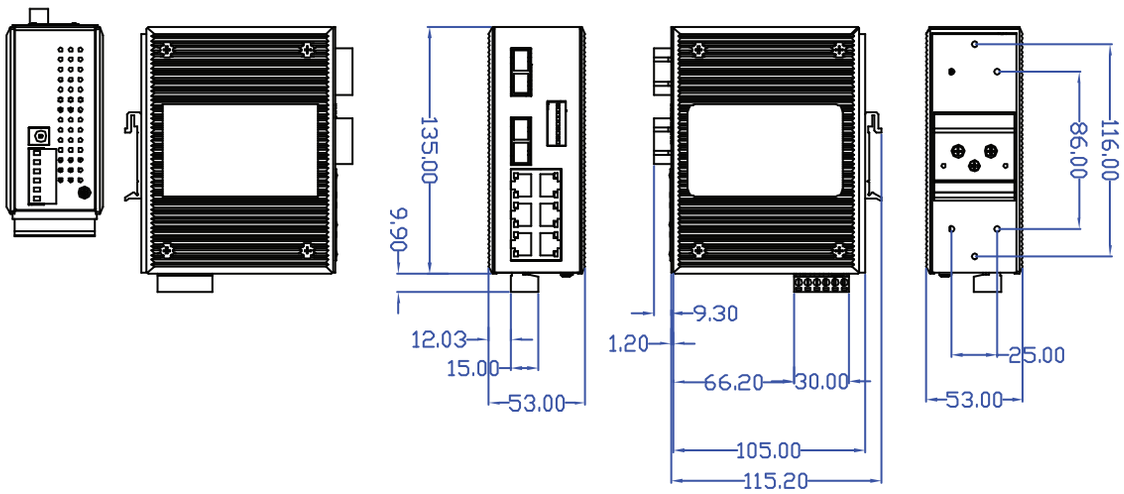
Reliable Power Design

- ✓ Wide range redundant power design
- ✓ Equipped with redundant power inputs
- ✓ Supports 24 to 48VDC redundant power with polarity reverse protection
- ✓ Terminal block present for master and slave power

Overview

The Husky series HME-621 is a highly reliable and fault-tolerant Industrial 8-port Managed Ethernet Switch with six 10/100 Mbps Ethernet ports and two multi-mode fiber ports. With the optic port, HME-621 transmits data at high speed for long distances up to 2 km with an SC connector. With its high performance switching device, HME-621 provides redundant self-recovery mechanism in less than 300ms on full load which allows you to establish a redundant Ethernet network to build a back-up ring topology. With powerful network management functions, HME-621 can be remotely configured by Web browser, managed by SNMP and RMON. Event notification can be defined via SNMP trap, Syslog, Relay output or E-mail. Security is enhanced with advanced features like Port based VLAN, Tagged VLAN and IP security. Performance is optimized by Quality of Service and IGMP Snooping/querying. The HME-621 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 is suitable for an industrial environment. The E version extends the temperature rating to -40 to 80°C. The HME-621 is a plug-and-play solution for your Industrial Ethernet applications.

Dimensions



Hardware Specifications

Interface

RJ-45 Ports	6 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 (Green) Per unit: Power x 3 (Green), Fault (Red), R.M. (Orange)
DIP Switch	X-ring, Master, Coupler, Reserve
Alarm	Relay output for port break and power failure
Power Input	VDC 12-48V Redundant power with polarity reverse protect function and removable terminal block
Power Protection	ESD (Ethernet) : Present Surge : 1500VDC Power Reverse Polarity: Present
Power Consumption	3.5 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 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 IEEE 802.1p Class of service IEEE 802.1Q VLAN IEEE 802.1D Spanning Tree Protocol (STP) IEEE 802.1W Rapid Spanning Tree Protocol (RSTP)
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	2K
Memory Buffer	1 Mbytes
Back-plane	1.6 Gbps
Transfer Packet Size	64 bytes to 1522 bytes with VLAN tag

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	325,000 hrs based on Mil-Hdbk-217F, GB
Warranty	5 years

Management Specifications

Redundancy	Two ports of the switch supports X-ring redundant back-up path. Recovery time less than 300ms on full load Web interface management can activate X-ring protocol
Management Protocols	SNMP V1/V2c, RMON 1 (Statistics, History, Alarm, Events) SMTP, SNTP, IGMP V1 & Query mode, DHCP/Client, TFTP
MIB	MIB-II, Bridge MIB, Ethernet like MIB, VLAN MIB, Private MIB
Configuration	Web interface management Default button is available to restore default settings
VLAN	Support Port based VLAN and IEEE 802.1Q Tagged VLAN

Quality of Service	Hardware supports 4 queues per port
Port Mirroring	Online traffic monitoring on selected ports
IP Security	IP addresses are available to define access levels
E-mail Warning	Pre-defined events

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)
HME-621	Multi-mode 62.5/125	SC	1310nm	-19dBm	-14dBm	-31dBm	-14dBm	12dBm	2-3 km
HME-621-K5	Multi-mode 50/125	SC	1310nm	-20dBm	-14dBm	-34dBm	-14dBm	8dBm	5 km
HME-621E	Multi-mode 62.5/125	SC	1310nm	-19dBm	-14dBm	-31dBm	-14dBm	12dBm	2-3 km

Ordering Information

HME-621	Industrial 8-port Managed Ethernet Switch With 2 multi-mode SC fiber port
HME-621-K5	Industrial 8-port Managed Ethernet Switch With 2 multi-mode SC fiber port – 5 km
HME-621E	Industrial 8-port Managed Ethernet Switch With 2 multi-mode SC fiber port, Extended Temperature -40 to 80°C

*Extended temperature products are produced to order
*Special multi-mode SC type fiber that transmits 5 km distance is 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

ALLOY
1800 817 807
sales@alloy.com.au
www.alloy.com.au

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Alloy Computer Products Australia Pty Ltd

Melbourne
4/585 Blackburn Road
Notting Hill, VIC 3168
Tel: (03) 8562 9000
Fax: (03) 9561 7412

Canberra
2/42 Geils Court
Deakin, ACT 2600
Tel: (02) 6291 4922
Fax: (02) 6291 8100

Sydney
99 Baxter Road
Mascot, NSW 2020
Tel: (02) 8080 9600
Fax: (02) 8080 9602