

Husky

Web Managed Ethernet Series

HWE-411/411E and HWE-413/413E

Overview



The Husky web managed Industrial Ethernet Switch is which supports powerful features required in Industrial Ethernet applications. Boasting management capabilities through the Web, HWE-411 and HWE-413 series is an ideal solution for mission critical application, specifically designed to operate reliably in electrically harsh, demanding environments and in hazardous locations.

With web-based configuration, HWE-411 and HWE-413 series ensures an easy installation and management of your switches. The switch supports Super Ring self-recovery mechanism which allows the switch to self-reconfigure and provides a redundant path in the network. In case any part of your network is disrupted or disconnected, the redundant feature allows a fault recovery time of less than 300ms to save your network from encountering interruption or failure.

The switch provides a high level of immunity to electromagnetic interference and power supply surges typically found in industrial plant environments or external curb side enclosures.

Key Features

● Hardware Feature

Complies with IEEE 802.3, IEEE 802.3u, IEEE 802.3X, IEEE 802.1p and IEEE 802.1Q

RJ-45 Port support auto MDI/MDI-X function

Wide-range redundant power design

Store and forward switch architecture

DIN rail and 3-way wall mount design

● Industrial Conformance

12 to 48V DC, redundant power with polarity reverse protection and terminal block for master and slave power

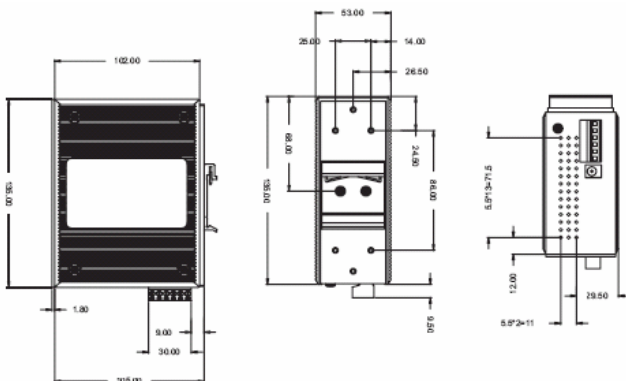
-10 to 70 Degrees C operation temperature

IP-31 standard Aluminum case

EMI complies with FCC Class A, CE EN6100-4-2, CE EN6100-4-3, CE EN6100-4-4, CE EN6100-4-5 and CE EN6100-4-6, EN61000-4-8 and EN61000-4-11

Stability testing with IEC60068-2-32(Free fall), IEC60068-2-27(Shock) and IEC60068-2-6(Vibration)

Mechanical Dimension (in mm)



Specifications

Technology	
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
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
Packet Filter	Broadcast packet filtering
Performance	
Network Data Transfer Rate	14,880 pps for Ethernet port and 148,800 pps for Fast Ethernet port
MAC Address	2K
Memory Buffer	1MBytes
Back-plane	1.0 Gbps
Transfer packet size	64 bytes to 1522 bytes with VLAN tag
Interface	
Number of Ports	4 x 10/100Base-TX + 1 x 100Base FX
Diagnostic LED	Per port : Link/Activity (Green), Full duplex/Collision (Green) Per unit: Power x 3 (Green), Fault (Red), R.M. (Orange)
Optical cable	SC (Multi Mode) : 50/125um to 62.5/125um SC (Single Mode) : 9/125um to 10/125um
Distance & wavelength	Multi Mode : Distance 2 km, Wavelength 1310nm Single Mode : Distance 30 km, Wavelength 1310nm
Alarm	Relay output for port break and power failure
Power	
Power Supply	12 ~48 VDC, Redundant power with polarity reverse protect function and connective removable terminal block for master and slave power
Power Consumption	3.5 Watts
Mechanical	
Case Dimensions (WxHxD)	IP 31 standard, 54 mm (W) x 135 mm (H) x 105 mm (D)
Casing	IP-31 protection, aluminum casing
Installation	Provide DIN rail kit and wall mount plate for 3-way installation
Environmental	
Operating Temperature	-10 deg C to 70 deg C
Storage Temperature	-40 deg C to 85 deg C (-40 degF to 185 deg F)
Operating Humidity	5%~90%RH (Non-condensing)
Regulatory Approvals	
Emission	FCC Class A, CE EN6100-4-2, CE EN6100-4-3, CE EN-6100-4-4, CE EN6100-4-5, CE EN6100-4-6, EN61000-4-8, EN61000-4-11
Safety	UL, cUL, CE/EN60950
Shock	IEC60068-2-27
Vibration	IEC60068-2-6
Free Fall	IEC60068-2-32
Management Features	
Redundancy	2 port of the switch supports Super Ring redundant back-up path. Recovery time less than 300ms. Web interface management can activate Super Ring.
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
Ordering Information	

HWE-411 : Husky Industrial Web managed 4-port Ethernet Switch + 1-port 100Base-FX Multi mode
(-10 to 70 deg C operating temperature)

HWE-411E : Husky Industrial Web managed 4-port Ethernet Switch + 1-port 100Base-FX Multi mode
(-40 to 80 deg C operating temperature – made to order)

HWE-413 : Husky Industrial Web managed 4-port Ethernet Switch + 1-port 100Base-FX Single mode
(-10 to 70 deg C operating temperature)

HWE-413E : Husky Industrial Web managed 4-port Ethernet Switch + 1-port 100Base-FX Single mode
(-40 to 80 deg C operating temperature – made to order)