

# Husky

## Managed Gigabit Ethernet Series

### HMG-628G

### Overview



The Husky managed Industrial Gigabit Ethernet Switch is a state of the art design with Gigabit SX and LX. The HMG-628G supports six 10/100/1000TX plus two ports of 100/1000/Mini-GBIC. The pluggable SFP Mini-GBIC gives you the flexibility to mix and match fiber interfaces depending on your existing network structure. The wide range temperature combo managed industrial switch can be remotely configured by a Web browser, SNMP, Telnet, CLI and menu driven management.

The Husky managed switch supports X-ring self-recovery which is more powerful than Super Ring mechanism which allows the switch to self-reconfigure and provide 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 50ms to save your network from encountering interruption or failure.

To secure your network, the IP security function supports 10 IP address accounts for system management security for Web, SNMP and Telnet management security to prevent intruders. The HMG-628G switch has advanced management features, such as Dual Homing and Ring Coupling.

### Key Features

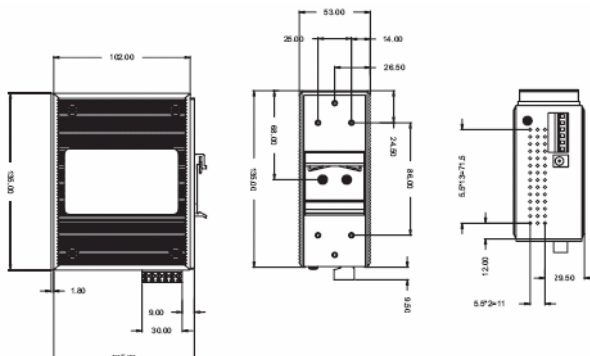
#### Hardware Features

- Complies with IEEE 802.3, IEEE 802.3u, IEEE 802.3X, IEEE 802.3z, IEEE 802.3ad, IEEE 802.1p, IEEE 802.1Q, IEEE 802.1D, IEEE 802.1W, IEEE 802.1x
- RJ-45 Port support auto MDI/MDI-X function
- Wide-range redundant power design
- Store and forward switching 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 operating temperature range
- IP-30 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

<b>Standard</b>	IEEE802.3 10BASE-T IEEE802.3u 100BASE-TX/100BASE-FX IEEE 802.3z Gigabit Fiber IEEE802.3x Flow Control and Back Pressure IEEE802.3ad Port trunk with LACP IEEE802.1d Spanning Tree Protocol IEEE802.1w Rapid Spanning tree IEEE802.1p Class of Service IEEE802.1Q VLAN Tagging IEEE 802.1x User Authentication (Radius)
<b>RFC Standard</b>	RFC2030 SNMP, RFC 2821 SMTP, RFC 1215 Trap, RFC2233 MIBII, RFC 1157 SNMP MIB, RFC 1493 Bridge MIB, RFC 2674 VLAN MIB, RFC 2665 Ethernet like MIB, RFC 2819 RMON MIB, Private MIB
<b>Network Media</b>	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)
<b>Protocol Technology</b>	CSMA/CD
<b>Switching Architecture</b>	Store and Forward
<b>Packet Filter</b>	Broadcast packet filtering -Number of MAC (50 Tables) -IP Address Security (10 Sections)

### Performance

<b>Network Data Transfer Rate</b>	14,880 pps for Ethernet port and 148,800 pps for Fast Ethernet port
<b>MAC Address</b>	8K
<b>Memory Buffer</b>	1Mbytes
<b>Back-plane</b>	16 Gbps
<b>System Log</b>	1000 records
<b>Transfer packet size</b>	3.87 Mpps at 64 bytes
<b>Local configuration</b>	RJ-45 for RS-232 series
<b>Port Statistics</b>	Supported
<b>Flow Control</b>	Full-duplex and Back Pressure for Half-duplex
<b>Packet Filter</b>	Broadcast/Multi-cast/Unknown Broadcast storm packet filter

### Interface

<b>Number of Ports</b>	6 x 10/100/1000TX plus 2 100/1000 Mini-GBIC ( SFP )
<b>System Interface</b>	Port Enable/Disable, Auto-Negotiation and Force speed, Full-duplex or Half-duplex mode
<b>Diagnostic LED</b>	Per unit: Power (Green), Power 1 (Green), Power 2 (Green), Fault (Yellow), Master (Green) Per port: Link/Activity (Green), speed ( 1000 Green) Mini GBIC: Link/Activity (Green)
<b>Optical cable</b>	SX/SC (Multi Mode) : 50/125um to 62.5/125 um LX/SC (Single Mode) : 9/125um to 10/125um
<b>Distance &amp; wavelength</b>	SX : Distance 550 m, Wavelength 1310nm LX : Distance 10 km, Wavelength 1310nm
<b>Alarm</b>	Relay output for port break and power failure Current carry ability (1A at DC24V)

### Power

<b>Power Supply</b>	24 ~48 VDC, Redundant power with polarity reverse protect function and connective removable terminal block for master and slave power
<b>Reverse Polarity Protection</b>	Present
<b>Power Consumption</b>	3.5 Watts

### Mechanical

<b>Case Dimensions (WxHxD)</b>	IP 31 standard, 72(W) x 152(H) x 105(D) in mm
<b>Mounting</b>	DIN Rail and wall mount
<b>Installation</b>	Provide DIN rail kit and wall mount plate for 3-way installation

### Environmental

<b>Operating Temperature</b>	-10 deg C to 70 deg C
<b>Storage Temperature</b>	-40 deg C to 85 deg C (-40 deg F to 185 deg F)
<b>Operating Humidity</b>	5%~90%RH (Non-condensing)
<b>Regulatory Approvals</b>	
<b>Emission</b>	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
<b>Safety</b>	UL, cUL, CE/EN60950
<b>Shock</b>	IEC60068-2-27
<b>Vibration</b>	IEC60068-2-6
<b>Free Fall</b>	IEC60068-2-32
<b>Management Features</b>	
<b>Ring Redundancy X-ring</b>	Provides X-ring, Dual Homing, and Ring Coupling. Provide redundant backup feature and the recovery time below 50 ms
<b>Management</b>	Web/SNMP/Telnet/CLI/Menu Driven management
<b>Management Protocols</b>	SNMP V1/V2c, RMON 1 (Statistics, History, Alarm, Events) SMTP, SNTP, IGMP V1 & Query mode, DHCP/Client, DHCP Server, TFTP
<b>MIB</b>	MIB-II, Bridge MIB, Ethernet like MIB, VLAN MIB, Private MIB
<b>Configuration</b>	Web and SNMP interface management Default button is available to restore default settings
<b>VLAN</b>	Support Port based VLAN/Tag VLAN(256 entries) VLAN ID(Up to 4K) GVRP(256 Groups) Static VLAN groups up to 256, the VLAN ID can be assigned from 1 to 4094.
<b>Quality of Service</b>	Hardware supports 4 queues per port
<b>Port Mirroring</b>	Online traffic monitoring on selected ports
<b>MAC IP Security</b>	- Supports ingress and egress MAC address filter and static source MAC address lock, Dumping MAC address Table - Ingress/Egress MAC address security, per port support learning of 50 MAC addresses
<b>IP Security</b>	Supports 10 IP address accounts for system management security for Web, SNMP and Telnet management security to prevent intruder.
<b>Firmware update</b>	By TFTP
<b>IGMP Snooping</b>	v1 and v2, query mode, multicast group with 256 entries
<b>LACP Port Trunk</b>	3 Trunk groups/Maximum 4 trunk members
<b>Port Mirror</b>	Global system supports 3 mirroring types: "RX, TX and Both packet". Maximum of 8 entries
<b>Port Trunk</b>	802.3ad with LACP function. Up to 3 trunk groups and maximum group member up to 4 ports
<b>Class of Service (CoS)</b>	4 queues per port
<b>Quality of Service (QoS)</b>	Port based/Tag based, IPv4 ToS, IPv6 Different Service
<b>E-mail warning</b>	Pre-defined events
<b>SNMP Trap</b>	Cold start, link down, link up, authorization fail, X-ring topology Change, Power alarm trap, Trap station up to 3
<b>SMTP</b>	Supports up to 6 e-mail accounts
<b>MTBF</b>	315,000 hours

## Ordering Information

HMG-628G : Husky Industrial SNMP Combo Wide temperature managed 6 x 10/100/1000TX plus 2 100/1000/Mini-GBIC Switch (-10 to 70 deg C operating temperature)