

# ETH-6C2FG-P

3isysNetworks 8-Port Industrial Gigabit PoE+ Managed Ethernet Switch

-6\*10/100/1000Tx with PoE Injector (30W/Port) + 2\*100/1000 SFP Slot, 48-55VDC Power Input



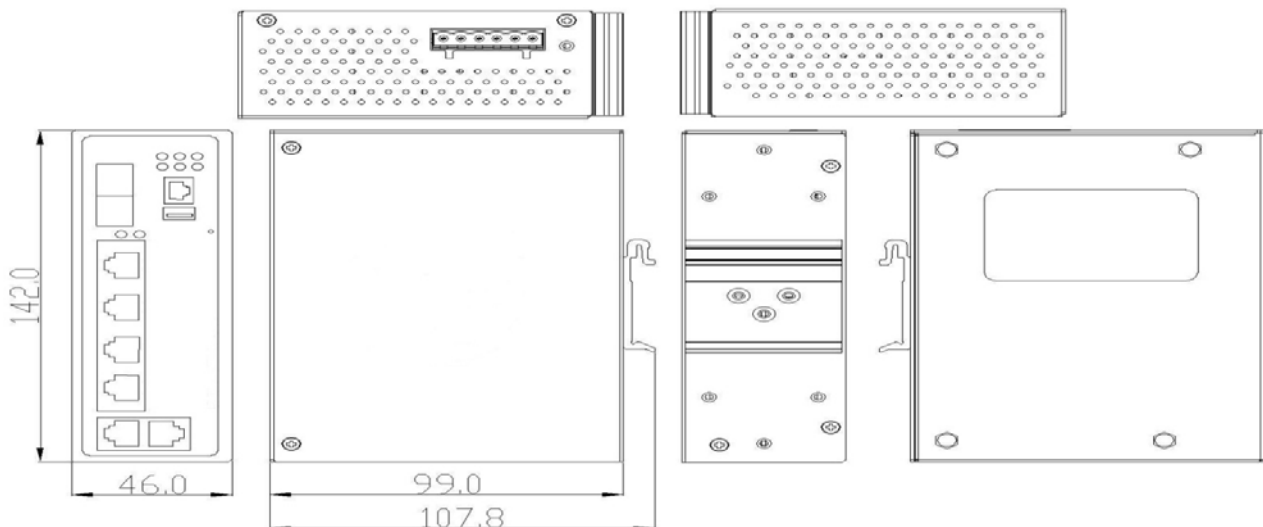
## Feature



- 6-port 10/100/1000Tx Ethernet with IEEE 802.3at Compliant PoE+
- 2-port 100/1000 SFP Slot
- Configuration: Web GUI, Serial Console, CLI Command
- Network Redundancy support: G.8032 ERPS, RSTP, MSTP
- Supports IGMP v1/v2, up to 256 groups
- Supports Storm Protection for Broadcast, Multicast, and Unicast frames
- Supports IEEE802.1p QoS and CoS/ToS
- Supports IEEE802.1Q VLAN, SNMP v1/v2c/v3
- PoE Ping Alarm function for PoE ports power recycle
- System Warning setting for automatic warning through e-mail
- Redundant Power Input Design, 48-55VDC
- IP30 Rugged Metal Case Design
- DIN-Rail Mounting, Wall Mounting (optional)
- Operating Temperature Range - STD: -10°C ~ 65°C, EOT: -40°C ~ 75°C



## Dimensions (unit = mm)



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# Specifications

## Technology

<b>Standards</b>	IEEE 802.3 10BaseT Ethernet IEEE 802.3u 100BaseTX Fast Ethernet IEEE 802.3ab 1000BaseT IEEE 802.3z 1000Base-X Gigabit Fiber IEEE 802.3af/at Power over Ethernet IEEE 802.1d STP (Spanning Tree Protocol) IEEE 802.1w RSTP (Rapid Spanning Tree Protocol) IEEE 802.1s MSTP (Multiple Spanning Tree Protocol) ITU-T G.8032 / Y.1344 ERPS (Ethernet Ring Protection Switch) IEEE 802.1Q Virtual Local Area Network (VLAN) IEEE 802.1p QoS/CoS Protocol for Traffic Prioritization IEEE 802.1X Network Authentication IEEE 802.1AB Link Layer Discovery Protocol (LLDP)
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<b>Processing Type</b>	Store and Forward
<b>Protocol</b>	CSMA/CD, IGMP v1/v2, SNMP v1/v2c/v3, TFTP, SNMP, SMTP, RARP, RMON, Syslog
<b>Flow Control</b>	IEEE 802.3x flow control, back pressure flow control

## Switch Properties

<b>Memory Buffer</b>	4Mbits
<b>Jumbo Frame</b>	9.6Kbytes
<b>MAC Table size</b>	8K Mac Addresses
<b>IGMP Group</b>	Up to 256 groups

## Network Management

<b>Network Redundancy</b>	STP/RSTP/MSTP, Port Trunk with LACP, ERPS(≤ 50ms)
<b>Configuration</b>	Web-based, Telnet, Console, Cisco-like CLI, TFTP, SSH, SSL, SNMP v1/v2c/v3, RMON, USB
<b>Software Features</b>	INNOVATIVE - INTEGRATED - INTELLIGENT Storm Protection for Broadcast, Multicast, and Unicast frames QoS - CoS, ToS/Diffserv mapping, SPQ/WRR queuing 802.1Q Virtual Local Area Network(VLAN) IGMP Snooping, IGMP query DHCP Client/Server/Relay with Option 82 Internet Protocol Version 6 (IPv6) Link Layer Discovery Protocol (LLDP) Port Status, Statistics, Monitoring, Security PoE Status, Monitoring, Ping Alarm, Scheduling Port Mirror, LLDP, uPnP, Modbus/TCP
<b>Security Features</b>	Static MAC address 802.1X authentication, RADIUS SNMP v3 encrypted authentication and access

## Interface

<b>RJ45 Ports</b>	6*10/100/1000BaseT(X) with 6* PoE+, auto negotiation speed, Full/Half duplex mode, and auto MDI/MDI-X connection
<b>PoE Pin Out</b>	V+, V+, V-, V-, for pin 1, 2, 3, 6 (Endspan, MDI Alternative A)
<b>Fiber Port</b>	2*100/1000 SFP Slot
<b>LED Indicators</b>	Power 1, Power 2, Fault Ethernet Ports: On-Link/Flash-data transmitting PoE : On-connected to PD devices SFP: Link/Active
<b>Wavelength</b>	Depends on SFP modules
<b>RS232 Serial Console</b>	1*RS232 in RJ45 connector with console cable, 115.2bps, 8,N,1
<b>Configuration Backup</b>	1*USB 2.0 for firmware update, configuration backup/restore/boot up and syslog



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## Power Requirements

Input Voltage	48-55VDC, Redundant Input
Power Connection	1 removable 6-contact terminal block
PoE Power Output	30W @ 51~55VDC (per PoE port); 25W @ 48VDC (per PoE port)
Power Consumption	15 Watts
Suggested Power Budget	165 Watts @ 48VDC; 195 Watts @51~55VDC

## Protection

Overload Current Protection	Present(Slow-Blown Fuse)
Power Reverse Polarity Protection	Present
CPU Watch Dog	Present
Network Cable	10BaseT: 2-pair UTP/STP Cat. 3, 4, 5 cable EIA/TIA-568 100-ohm (100m) 100BaseTX: 2-pair UTP/STP Cat. 5 cable EIA/TIA-568 100-ohm (100m) 1000BaseTX: UTP/STP Cat.5/5E cable; EIA/TIA-568 100-ohm (100m)

## Mechanical Characteristics

Housing	Metal, IP30 protection
Dimensions	46 x 142 x 99 mm
Weight	Unit Weight: 0.7kg, Shipping Weight: 1.1kg
Mounting	DIN-Rail Mounting, Wall Mounting (optional)

## Environmental Limits

Operating Temperature	STD: -10°C ~ 65°C; EOT: -40°C ~ 75°C
Storage Temperature	-40°C ~ 85°C
Ambient Relative Humidity	5 to 95%, (non-condensing)

## Regulatory Approvals

EMI	FCC Part 15 Subpart B Class A, CE EN 55022 Class A
EMS	IEC61000-4-2 (ESD), IEC61000-4-3 (RS), IEC61000-4-4 (EFT), IEC61000-4-5 (Surge), IEC61000-4-6 (CS), IEC61000-4-8 (Magnetic Field)
Free Fall	IEC60068-2-32
Shock	IEC60068-2-27
Vibration	IEC60068-2-6
Green	RoHS Compliant
Certifications	CE/ FCC
Warranty	1 Years

Due to continuous improvement, all product specifications are subject to change without further notice.

## Ordering Information

ETH-6C2FG-P	3isysNetworks 8-Port Industrial Gigabit PoE+ Managed Ethernet Switch - 6*10/100/1000Tx with PoE Injector (30W/Port) + 2*100/1000 SFP Slot
ETH-6C2FG-PT	3isysNetworks 8-Port Industrial Gigabit PoE+ Managed Ethernet Switch - 6*10/100/1000Tx with PoE Injector (30W/Port) + 2*100/1000 SFP Slot, Extended Operating Temperature: -40° to 75° C

### Optional Accessories

SFP	Single mode or Multimode 1GIG 3isys SFP
PWR-120-48	120W Industrial DIN-Rail Power Supply, 48VDC
PWR-240-48	240W Industrial DIN-Rail Power Supply, 48VDC



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