

# 3ISYS-ETHG-8C

INDUSTRIAL 8-PORT SLIM TYPE UNMANAGED GIGABIT  
ETHERNET SWITCH WITH 8X10/100/1000BASE-T(X)

## FEATURES

- Dual Power input (12~48VDC)
- Support auto negotiation & auto MDI and MDI-X
- Provision of Relay Output for current carrying capacity of 1A at 24 VDC
- Supports carrying of Jumbo frames up to 9000 bytes of payload
- Supports store-and-forward transmission mode
- Data Link Layer Flow control capability
- Manual DIP switch for activation/deactivation of warning function
- Slim Rigid Casing rated IP30 with LED Indicators
- DIN Rail wall mounting capability
- -40°C to 75°C operating temp. range



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## INTRODUCTION

The 3ISYS-ETHG-8C offers high performance switch architecture. With the 8x10/100/1000Mbps Gigabit Ethernet ports providing non-blocking switch fabric and wire-speed throughput as high as 16Gbps and the 8K MAC Address table, the 3ISYS-ETHG-8C can perform wire-speed packets transfer without risk of packet loss.

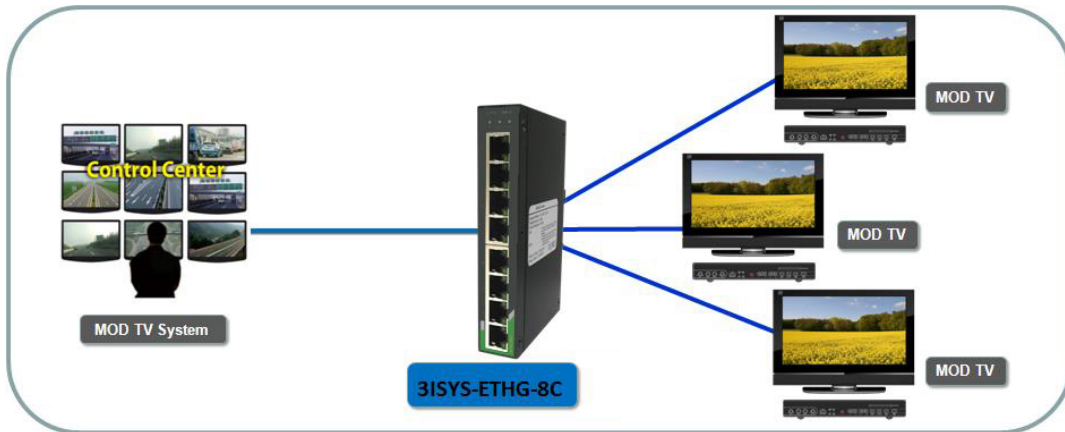
The flow control function enables the 3ISYS-ETHG-8C to provide fast and reliable data transfer. The Gigabit port with 9K Jumbo frame supported can handle extremely large amounts of data transmission in industrial topology that forward data to central control room.

All of the RJ-45 copper interfaces in the 3ISYS-ETHG-8C support 10/100/1000Mbps auto negotiation for optimal speed detection through RJ-45 Category 6, 5 or 5e cables. The standard to-MDI/MDI-X support can detect the type of connection to any Ethernet device without requiring special straight or crossover cables. The wide operating temperature range from -40°C to 75°C can satisfy most of operating environments. ISYS-ETHI-8C-24V is unmanaged PoE Ethernet

switch with P.S.E. function. 3ISYS-ETHI-8C supports Power over Ethernet, a system to transmit electrical power, along with data, to remote devices over standard twisted-pair cable in an Ethernet network. 3ISYS-ETHI-8C switch has 8X10/100/1000Base-T(X) P.S.E. (Power Sourcing Equipment) ports. P.S.E. is a device (switch or hub for instance) that will provide power in a PoE setup. The wide operating temperature range from -40oC to 70oC can satisfy most of operating environment. Therefore, the switch is one of the most reliable choices for PoE Ethernet application.

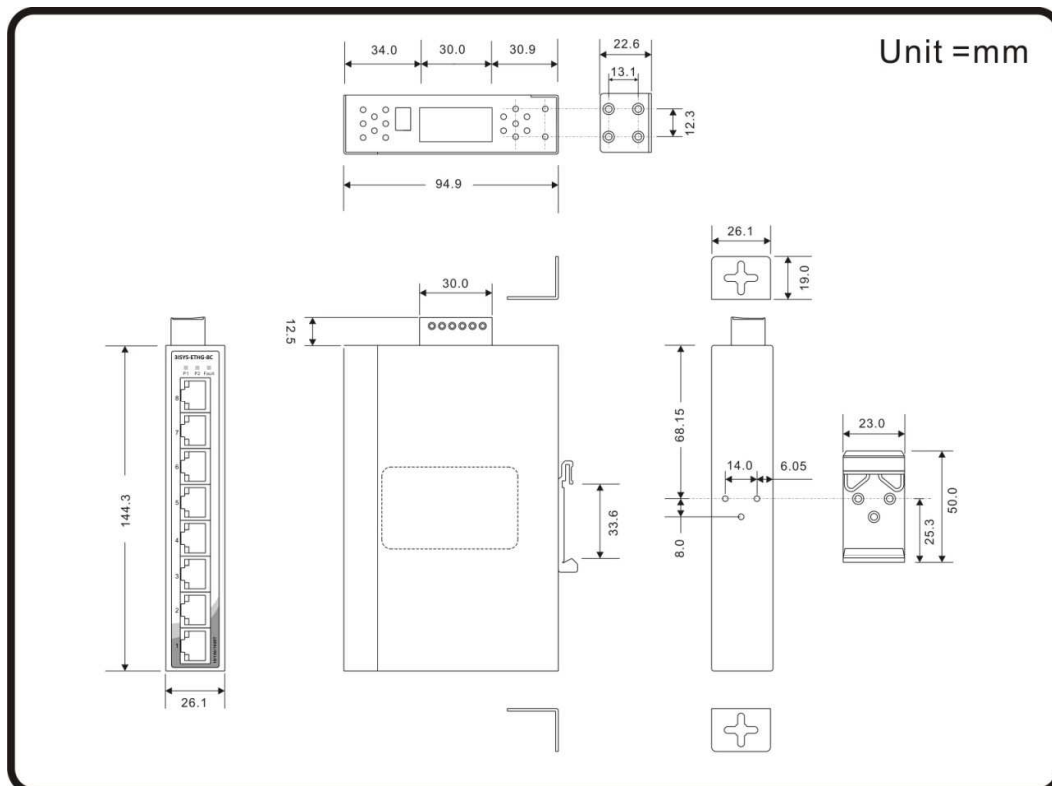
## IMPLEMENTATION

3ISYS-ETHG-8C can be used in connecting several Ethernet devices such as Ethernet I/O, IP-Camera or other Ethernet switches. In addition, there are two different power inputs at terminal block to avoid interruption caused by power down. When the primary DC power input fails, the backup power input will take over immediately to guarantee a non-stop operation.



Connections of Ethernet devices

## DIMENSION



## SPECIFICATIONS

3ISYS SWITCH MODEL	3ISYS-ETHG-8C
<b>Physical Ports</b>	
10/100/1000Base-T(X) Ports in RJ45 Auto MDI/MDIX	<b>8</b>
<b>Technology</b>	
Ethernet Standards	IEEE 802.3 for 10Base-T IEEE 802.3u for 100Base-TX IEEE 802.3ab for 1000Base-T IEEE 802.3x for Flow control
MAC Table	4096 MAC addresses
Processing	Store-and-Forward
<b>LED Indicators</b>	
Power indicator	Green : Power LED x 2
Fault indicator	Amber : Indicate PWR1 or PWR2 failure
10/100/1000Base-T(X) RJ45 port indicator	Left LED for Link/Act indicator : Green for 1Gbps connection, Amber for 10/100Mbps connection Right Amber LED for Full/Half-Duplex indicator
<b>DIP-Switch</b>	
DIP-Switch 1	Power-1 failed warning : (ON) enable, (OFF) disable
DIP-Switch 2	Power-2 failed warning : (ON) enable, (OFF) disable
<b>Fault Contact</b>	
Relay	Relay output to carry capacity of 1A at 24VDC
<b>Power</b>	
Redundant Input power	Dual DC inputs. 12 ~ 48VDC on 6-pin terminal block.
Power consumption (Typ.)	5.5 Watts
Overload current protection	Present
Reverse polarity protection	Present
<b>Physical Characteristic</b>	
Enclosure	IP-30
Dimension (W x D x H)	26.1 (W) x 94.9 (D) x 144.3(H) mm (1.03 x 3.74 x 5.68 inch)
Weight (g)	390 g
<b>Environmental</b>	
Storage Temperature	-40 to 85°C (-40 to 185°F)
Operating Temperature	-40 to 70°C (-40 to 158°F)
Operating Humidity	5% to 95% Non-condensing
<b>Standards Conformance</b>	
EMI	FCC Part 15, CISPR (EN55022) class A
EMS	EN61000-4-2 (ESD), EN61000-4-3 (RS), EN61000-4-4 (EFT), EN61000-4-5 (Surge), EN61000-4-6 (CS), EN61000-4-8, EN61000-4-11
Shock	IEC60068-2-27
Free Fall	IEC60068-2-32
Vibration	IEC60068-2-6
Safety	EN60950-1
<b>Warranty</b>	1 year

## Ordering Information

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3ISYS-AAAA-C

Module Identifier	Number of 10/100/1000Base-T(X) Ports
Gigabit Ethernet, ETHG	8

## Items Included

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- § 3ISYS-ETHI-8C x 1
- § Wall-Mount Kit x 1
- § Quick Installation Guide x 1
- § 3ISYS-ETHG-8C x 1
- § Din-Rail Kit x 1
- § Quick Installation Guide x 1
- § Wall-Mount Kit x 1

## Optional Accessories

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- § 3ISYS-ETHI-8C x 1
- § Wall-Mount Kit x 1
- § Quick Installation Guide x 1
- § 3ISYS-PWR-45 series : 45 Watts DIN-Rail power supply
- § 3ISYS-PWR -75 series : 75 Watts DIN-Rail power supply
- § 3ISYS-PWR-120 series : 120 Watts DIN-Rail power



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