

# 3ISYS-ETHI-8C-POE-24V

**INDUSTRIAL 8-PORT SLIM TYPE UNMANAGED GIGABIT POE ETHERNET SWITCH  
WITH 8X10/100/1000BASE-T(X) P.S.E. , 24VDC POWER INPUTS**

## FEATURES

- Provide 8x10/100/1000Base-T(X) PoE (P.S.E.) ports
- Support P.S.E. based on IEEE 802.3at standard up to 30 Watts per port
- Supports jumbo frame up to 9Kbytes
- Support dual wide range 12~36VDC power inputs for power redundancy
- Support auto-negotiation and auto-MDI/MDI-X
- Support store and forward transmission
- Support flow control
- Rigid IP-30 housing design
- DIN-Rail and wall mounting enabled



© 2014 3ISYS NETWORKS INC ALL RIGHTS RESERVED. THIS DOCUMENT IS 3ISYS PUBLIC INFORMATION ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT FURTHER NOTICE. ALL FEATURES WITH \* MARK WILL BE AVAILABLE BY FIRMWARE UPGRADE.

## INTRODUCTION

3ISYS-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.

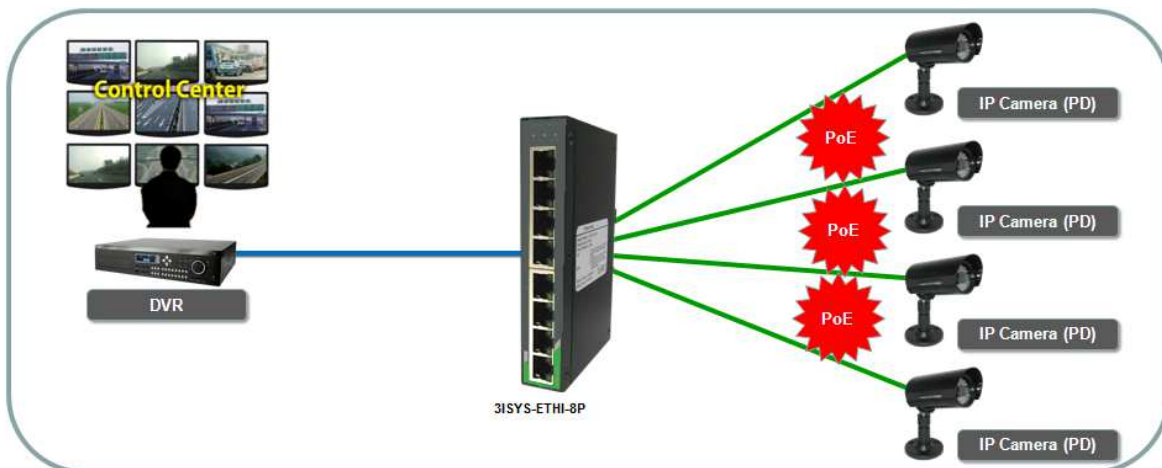
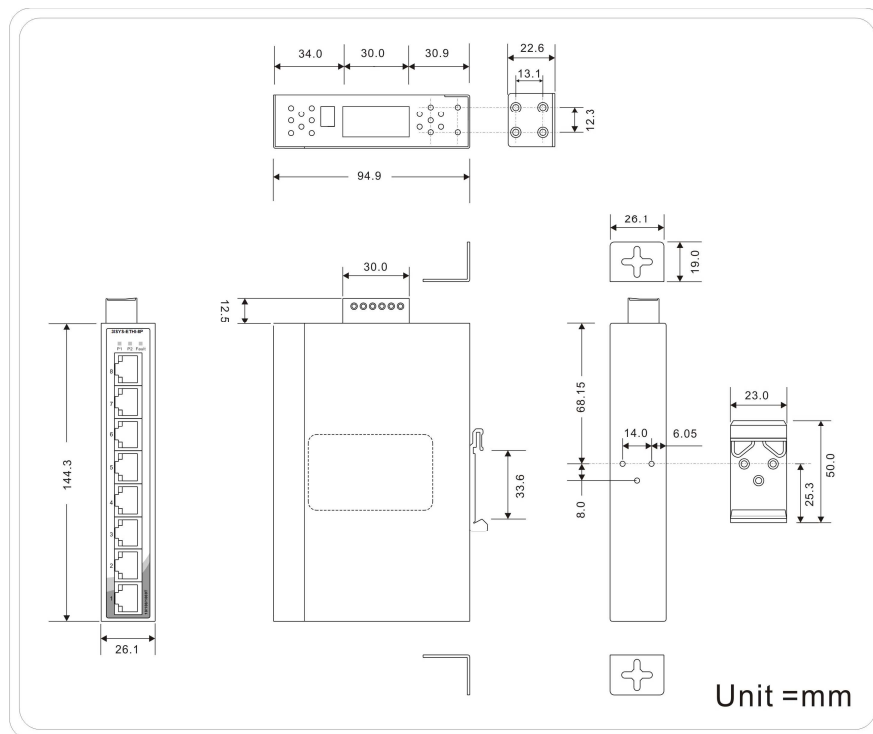
3ISYS-ETHI-8C switch has 8X10/100/1000Base-T(X) P.S.E. (Power Sourcing Equipment) ports. P.S.E. is a device (switch or hub for instance) that will provide power in a PoE setup. The wide operating temperature range from -40oC to 70oC can satisfy most of operating environment. Therefore, the switch is one of the most reliable choices for PoE Ethernet application.

## IMPLEMENTATION

3ISYS-ETHI-8C can be used in connecting several PoE P.D. Ethernet devices like IP-Camera or other Ethernet devices. 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





§ 10/100Base-T(X) P.S.E. RJ-45 port

RJ-45 Pin Definition	
Pin No.	Description
#1	TD+ with PoE Power input +
#2	TD- with PoE Power input +
#3	RD+ with PoE Power input -
#6	RD- with PoE Power input -

§ 1000Base-T P.S.E. RJ-45 port

RJ-45 Pin Definition	
Pin No.	Description
#1	BI_DA+ with PoE Power input +
#2	BI_DA- with PoE Power input +
#3	BI_DB+ with PoE Power input -
#4	BI_DC+
#5	BI_DC-
#6	BI_DB- with PoE Power input -
#7	BI_DD+
#8	BI_DD-

## SPECIFICATIONS

<b>3ISYS Switch Model</b>	<b>3ISYS-ETHI-8C</b>
<b>Physical Ports</b>	
10/100/1000Base-T(X) Ports in RJ45 With P.S.E.	<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 IEEE 802.3at PoE specification (up to 30 Watts per port for P.S.E.)
MAC Table	8K MAC addresses
Processing	Store-and-Forward
Jumbo Frame	Up to 9KBytes
<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 and PoE indicator	Green for port Link/Act. Green for PoE power injected.
<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. 50 ~ 57VDC on 6-pin terminal block.
Power consumption (Typ.)	8 Watts (power device not included)
Overload current	Present

protection	
Reverse polarity protection	NOT 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>Regulatory approvals</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

---

3ISYS-AAAA-C

Module Identifier	Number of 10/100/1000Base-T(X) P.S.E. Copper Ports
Gigabit Ethernet, Industrial PoE ,ETHI	8

Available Model	Model Name	Description
	<b>3ISYS-ETHI-8C</b>	Industrial 8-port slim type unmanaged Gigabit PoE Ethernet switch with 8x10/100/1000Base-T(X) P.S.E.

## Items Included

---

- |   |                                     |   |                           |
|---|-------------------------------------|---|---------------------------|
| 1 | <b>3ISYS-ETHI-8C x 1</b>            | 1 | <b>Wall-Mount Kit x 1</b> |
| 1 | <b>Quick Installation Guide x 1</b> | 1 | <b>Din-Rail Kit x 1</b>   |



## CONTACT DETAILS

#F-2, No. 12, Alley 112  
Lane 12 Wen Hu Street Taipei, Taiwan  
Ph: +886920221793

Office 508, The Fairmont  
Shiekh Zayed Road, UAE  
Ph: +97143116732

P.O. Box 74, P.C 102 CB 49  
Al-Khuwair-233, Muscat  
Ph: +96824488412

[www.3isysnetworks.com](http://www.3isysnetworks.com)

[Click to Read More](#)

© 2012 3ISYS Networks Inc All rights reserved. This document is 3ISYS Networks Public Information

All specifications are subject to change without further notice. All features with \* mark will be available by firmware upgrade.