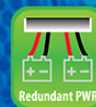


# 3ISYS-ETHI-5C

**INDUSTRIAL 5-PORT SLIM TYPE UNMANAGED GIGABIT POE ETHERNET SWITCH  
WITH 4X10/100/1000BASE-T(X) P.S.E. AND 1X10/100/1000BASE-T(X)**

## FEATURES

- 3ISYS-ETHI-5C provide 4x10/100/1000Base-T(X) PoE (P.S.E.) ports
- Support P.S.E. based on IEEE 802.3at standard up to 30 Watts per port
- Support Jumbo frame up to 9K Bytes  
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



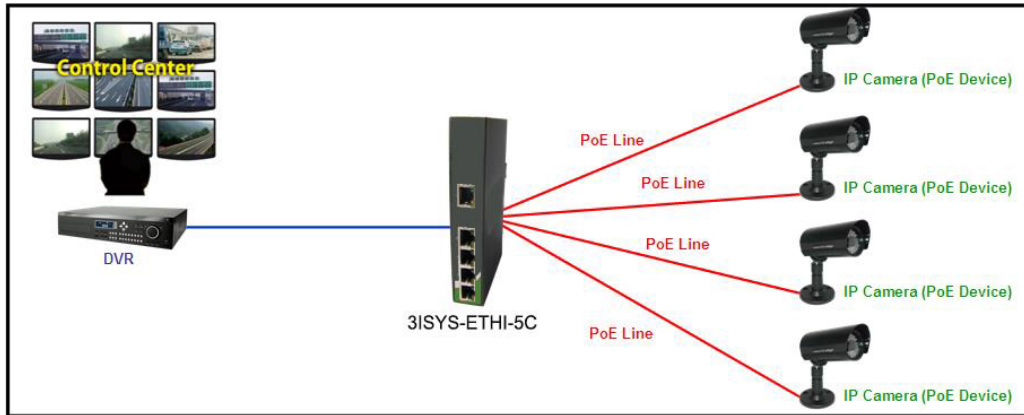
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## PRODUCT OVERVIEW

3ISYS-ETHI-5C is an unmanaged PoE Ethernet switch with P.S.E. function. 3ISYS-ETHI-5C has been designed to meet light and heavy Industrial communication requirements. 3ISYS-ETHI-5C support 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-5C has 4X10/100/1000Base-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.

## Practical Operation

3ISYS-ETHI-5C 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

## PoE Pin Definition

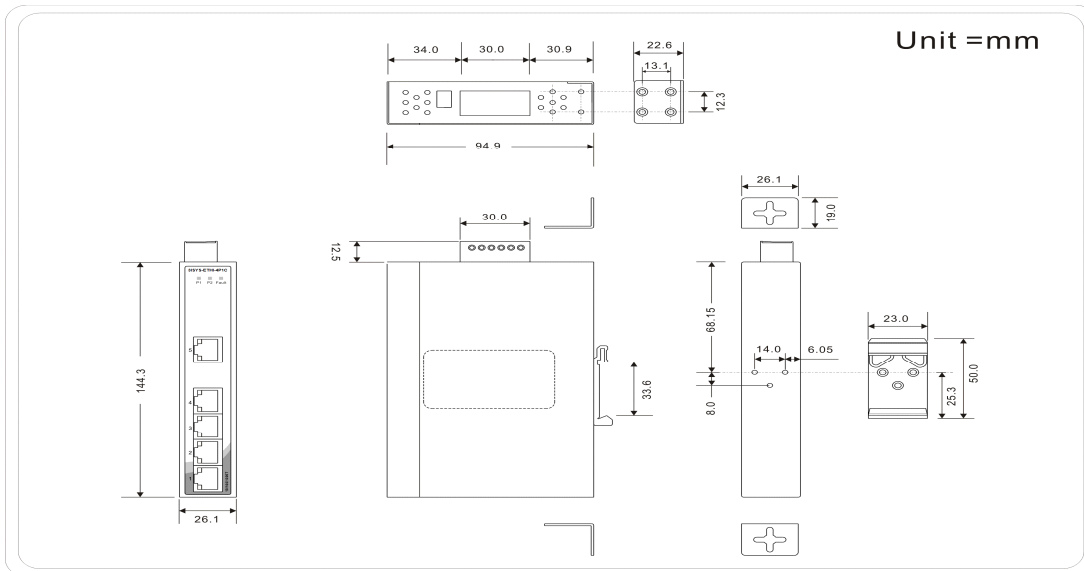
- 10/100Base-T(X) P.S.E. RJ-45 port

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-

## Dimension



## Specifications

3ISYS Switch Model	3ISYS-ETHI-5C
<b>Physical Ports</b>	
10/100/1000Base-T(X) Ports in RJ45 With P.S.E.	<b>4</b>
10/100/1000Base-T(X) Ports in RJ45 Auto MDI/MDIX	<b>1</b>
<b>Technology</b>	
Ethernet Standards	<ul style="list-style-type: none"> <li>§ IEEE 802.3 for 10Base-T</li> <li>§ IEEE 802.3u for 100Base-TX</li> <li>§ IEEE 802.3ab for 1000Base-T</li> <li>§ IEEE 802.3x for Flow control</li> <li>§ IEEE 802.3at PoE specification (up to 30 Watts per port for P.S.E.)</li> </ul>
MAC Table	8K MAC addresses
Processing	Store-and-Forward
Jumbo Frame	Up to 9K Bytes
<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 (P1 ~ P4)	Green for port Link/Act. Green for power injected.
10/100/1000Base-T(X) RJ45 port indicator (P5)	Green for port Link/Act. Amber for 100Mbps 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. 50~57VDC on 6-pin terminal block.
Power consumption (Typ.)	6.1 Watts
Overload current protection	Present
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 inches)
Weight (g)	407 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, EN61

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.	Number of 10/100/1000Base-T(X)Ports
Gigabit Ethernet, ETHI	4	1

Available Model	Model Name	Description
	<b>3ISYS-ETHI-5C</b>	Industrial 5-port slim type unmanaged Gigabit PoE Ethernet switch with 4x10/100/1000Base-T(X) P.S.E. and 1x10/100/1000Base-T(X)

## Items Included

- 1 3ISYS-ETHI-5C x 1
- 1 Din-Rail Kit x 1
- 1 Wall-Mount Kit x 1
- 1 Quick Installation Guide x 1



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