C-TCTS

IPC-3012-PoE++ Industrial Media Converter



Features

- Provide 1 Gigabit RJ-45 Copper Port & 1 SFP Port 100Base-FX or 1000Base-X
- Compatible with IEEE 802.3af/at PoE+ and up to 60W PoE++
- PoE Setting Auto / Force Power
- Support 9K Jumbo Frames
- 6KV Surge Immunity on RJ-45 Copper Port (K.21*)
- Dual Power Input (12 ~ 57VDC) & Built-in Power Booster
- Relay Output for Fault Alarm Notification (Power, Ports)
- Aluminum Housing
- Operating Temperature -40°C ~ 75°C

*K.21 is better than IEC 61000-4-5 Level 3 and designed for PoE Application and Outdoor environment

1 Port 100/1000Mbps SFP Dual Rate and 1 Port 10/100/1000Base-T with 60W PoE++ Industrial Media Converter

Description

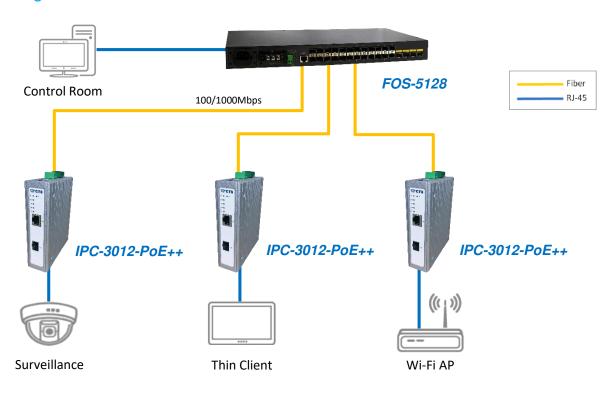
Connection Technology Systems (CTS) IPC-3012-PoE++ media converter is a Gigabit Ethernet 10/100/1000Base-T with 60W PoE++ to 100/1000Base-X media converter. The IPC-3012-PoE++ media converter converts traditional twisted-pair RJ-45 cable into various fiber media including multi-mode, single-mode with SC connectors or bi-directional WDM to fulfill different requirements depending on the deployment.

The IPC-3012-PoE++ media converter is designed for deployment at industrial sites. With DIN-Rail mounting, you can easily mount the industrial PoE media converter at your sites. The media converter supports two DC power inputs to provide redundancy and prevent any possible power loss and Relay output to serve as an alarm.

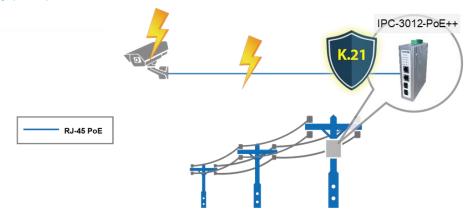
The IPC-3012-PoE++ media converter supports extended working temperature from -40°C to 75°C to withstand against harsh environment for a better performance. It is designed for surveillance network system integrators, who have the needs of implementing fiber optical Ethernet networks over long distance for wide-area surveillance solutions with the demand of wide operating temperature, and are looking for an effortless and robust Gigabit media converter.

ETCTS

Application Diagram



6KV Surge Immunity (K.21)



Test	K.21 (EnhancedLevel)	IEC 61000-4-5 (Level 3)	K.21 Advantages	
Temporary Voltage Surge	6KV	3 2KV	Ensures 3 times higher voltage	
Temporary Current Surge	1850A	3 48A	Withstands 39 times higher current	
PoE Standard	Released PoE testing standard in Dec. of 2016) N/A	Complies with safer PoE testing standards	



Innovation to your needs

Specification

■Interface

- TP Port:
- 1 x 10/100/1000Base-T RJ-45
- F/O Port:
- 1 x 100/1000Base-X SFP

■PoE

- 1 x 60W PoE (RJ-45)
- Max. 60 Watts per port
- Compatible with 802.3af/at

■Standards

- IEEE 802.3 10Base-T
- IEEE 802.3u 100Base-TX/FX
- IEEE 802.3ab 1000Base-T
- IEEE 802.3z 1000Base-X
- IEEE 802.3af Power over Ethernet
- IEEE 802.3at Power over Ethernet Enhancements

■H/W Specification

- Store and Forward Switching Mechanism
- Auto-negotiation in Copper and Fiber Port
- MDI/MDIX Auto-crossover Supported
- Support Fault Alarm Notification (Power, Ports)
- Support Auto & Force Mode Configuration
- Support Full/Half Duplex Mode
- MAC Address Table: 2K - Memory Buffer: 128K Bytes
- Relay Output
- Surge Protection: 6KV (K.21)

■LED

P1, P2, ALM, TP, PoE, SFP

■Ethernet Features

Jumbo Frames: 9K Bytes

■Other Features

- DIP Switch Configuration
- Installation Type: DIN Rail Mounting
- PoE Configuration: Auto-Mode/ Force Power

■Environmental Condition

- Operating Temperature: -40° ~ 75°C
- Storage Temperature: -40° ~ 85°C
- Humidity: 5% ~ 90%, non-condensing

■Power Requirement

DC Input:

- Terminal Block x 1 with two power inputs
- Input Voltage: 12 ~ 57VDC
- Caution: Use 14AWG or better powering wire
- Power Consumption: 64.8W (Max.)

■Dimension & Weight

- Size: 36 x 110 x 135 mm (W x D x H)
- Weight: 0.62Kg
- Housing: Aluminum, IP30

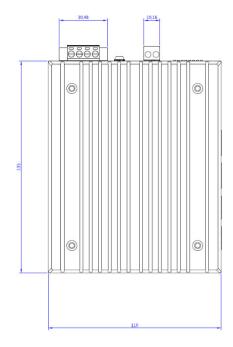
■EMC/Safety

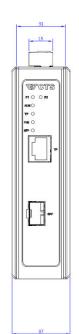
FCC Class A, CE ITU-T K.21

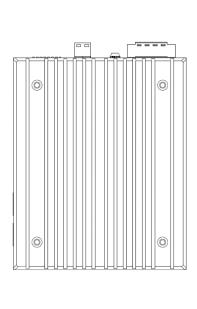
Shock: IEC 60068-2-27

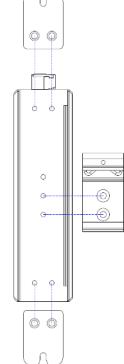
Freefall: IEC 60068-2-32 Vibration: IEC 60068-2-6

Dimension









(unit = mm)



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Order Information

IPC-3012-PoE++

Model	Fiber Ports				TP Ports			
	Speed	Туре	Connector	Distance	Ports	Speed	PoE++ Ports	Support Power Source
IPC-3012-PoE++	100/1000 Mbps	SFP	-	-	1	10/100/1000 Mbps	1	Terminal Block x 1 with two power inputs

Accessory

Power Supply

Model	Description	Remarks	
SDR-480-48	48V/480W Din-Rail Power Supply	Working Temperature: -25°C ~ 70°C	
SDR-240-48	48V/240W Din-Rail Power Supply	Working Temperature: -25°C ~ 70°C	
SDR-120-48	48V/120W Din-Rail Power Supply	Working Temperature: -25°C ~ 70°C	
SDR-75-48	48V/75W Din-Rail Power Supply	Working Temperature: -25°C ~ 70°C	
NDR-480-48	48V/480W Din-Rail Power Supply	Working Temperature: -20°C ~ 70°C	
NDR-240-48	48V/240W Din-Rail Power Supply	Working Temperature: -20°C ∼ 70°C	
NDR-120-48	48V/120W Din-Rail Power Supply	Working Temperature: -20°C ∼ 70°C	
NDR-75-48	48V/75W Din-Rail Power Supply	Working Temperature: -20°C ~ 70°C	
MDR-60-48	48V/60W Din-Rail Power Supply	Working Temperature: -20°C ~ 70°C	
MDR-20-12	12V/20W Din-Rail Power Supply	Working Temperature: -20°C ~ 70°C	

SFP-31-D

	Fiber Port					Operating	
Model	Speed	Туре	Connector	Distance	Wavelength	Temperature	
SFP-31FC-D	1000Mbps MM		LC	550M	850nm	-40°C ~ 85°C	
SFP-31FC-(MM-02)-D	1000Mbps	ММ	LC	2KM	1310nm	-40°C ~ 85°C	
SFP-31FC(SM-10/20)-D	1000Mbps	SM	LC	10/20KM	1310/1310nm	-40°C~85°C	
CED 24/M2A/CNA 40/20\ D	1000Mbps \	WOM	LC	10/20KM	TX: 1310/1310nm	-40°C ~ 85°C	
SFP-31W2A(SM-10/20)-D		WDM			RX: 1550/1550nm		
CED 24/M/2D/CM 40/20\ D	(SM-10/20)-D 1000Mbps WDM	14/514	16	10/20/04	TX: 1550/1550nm	-40°C ~ 85°C	
2FF-31WZB(3W-10/20)-D		LC	10/20KM	RX: 1310/1310nm	-40 C 83 C		

Connection Technology Systems (CTS) reserves the right to change specification without prior notice.