

IPC-3014 Industrial Media Converter



Features

- Provide 2 Gigabit RJ-45 Copper Ports & 2 SFP Ports 100FX or 1000BaseF(SX/LX/LH)
- Compatible with IEEE 802.3af/at PoE+
- PoE Setting - Auto / Force Power
- Support 9K Jumbo Frames
- 6KV Surge Immunity on RJ-45 Copper Ports (K.21*)
- Dual Power Input (12~57VDC) & Built-in Power Booster
- Support 3 Operating Modes - Switch mode, Fiber Backup mode and Dual Media Converter mode
- 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

2 Ports 100/1000Mbps SFP Dual Rate and 2 Ports 10/100/1000Base-T with 802.3af/at PoE+ Industrial Multi-Functional Media Converter

Description

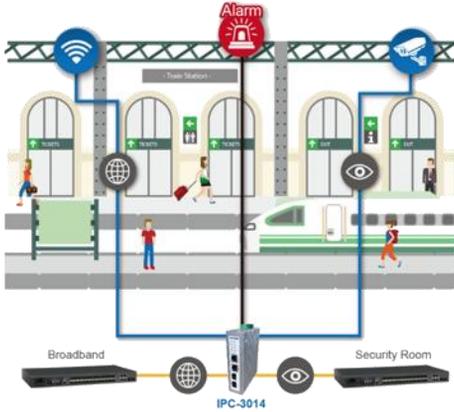
Connection Technology Systems (CTS) IPC-3014 series media converter is a Gigabit Ethernet 10/100/1000 Base-T with 802.3af/at PoE+ to 100/1000Base-X media converter. The IPC-3014 series media converter converts traditional twisted-pair RJ45 cable into various fiber media including multi-mode, single-mode with SC connectors or bi-directional WDM to fulfill different requirements depending on the deployment.

The IPC-3014 series 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-3014 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.

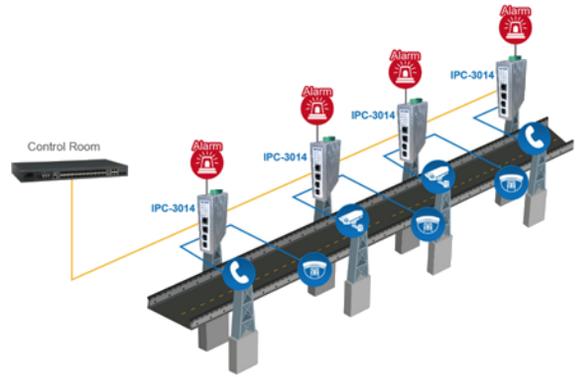
The IPC-3014 media converter supports three different operating modes and provides system integrators the flexibility to design their networks under different applications with the same product, thus lowering the complexity of their operation and the inventory pressure.

Application Diagram



Scenario 1: Bridges/Tunnels

A long-distant area in need of a surveillance system can sometimes cause extra costs during the deployment. CTS' brand-new industrial PoE converter, IPC-3014, supports **switch mode**, which enables the converters to build a chain network easily and solves the problem.

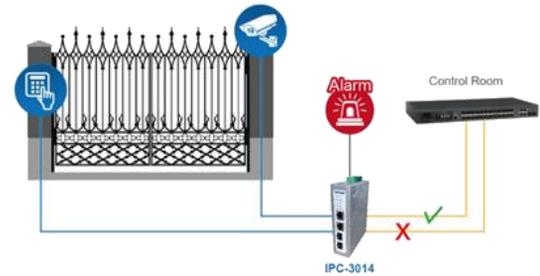


Scenario 2: Public Venues

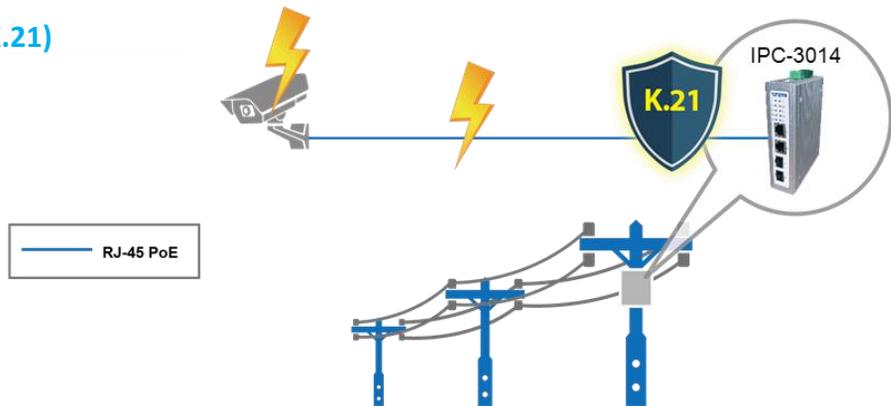
With the uprising trend of mobile devices, more and more public venues provide free Wi-Fi broadband to satisfy their customers. At the same time, the security of surveillance systems cannot be compromised. CTS IPC-3014 supports **dual media converter mode**, which separates the traffic for different purposes (e.g. Public WiFi and Surveillance).

Scenario 3: Highly Secured Places

At highly secured checkpoints, malfunction of the surveillance systems might cause severe damage beyond imagination. CTS IPC-3014 supports **fiber backup mode**, which enables the system to work smoothly if a fiber cable link is down.



6KV Surge Immunity (K.21)



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

Specification

■Interface

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

■PoE

- 2 x IEEE 802.3af/at (RJ-45)
- Max. 30 Watts per port
- 60 Watts PoE Budget

■Standards

- IEEE 802.3 10Base-T
- IEEE 802.3u 100Base-TX
- 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 Fiber Port
- MDI/MDIX Auto-Crossover Supported
- Support Fault Alarm Notification (Power, Ports)
- Support Auto & Force Mode Configuration
- MAC Address Table : 2K
- Memory Buffer: 128 Bytes
- Relay Output

■LED

P1, P2, ALM, Mode, TP1, TP2, PoE1, PoE2, SFP1, SFP2

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

■Power Requirement

- DC Input:
- Terminal Block x 1 with two power inputs
 - Input Voltage: 12~57VDC
 - Power Consumption: 66W

■Dimension & Weight

- Size: 36x110x135 mm (WxDxH)
- Weight: 0.64Kg

■EMC/Safety

FCC Class A, CE
IEC 61000-4-2/3/4/5/6
ITU-T K.21

Order Information

IPC-3014

Model	Fiber Ports					TP Ports		Support Power Source
	Speed	Type	Connector	Distance	Ports	Speed	PoE Ports	
IPC-3014	100/1000 Mbps	SFP	-	-	2	10/100/1000 Mbps	2	Terminal Block x 1 with two power inputs