IAC-3012 Industrial Media Converter

1 Port 100/1000Mbps SFP Dual Rate and 1 Port 10/100/1000Base-T Industrial Media Converter

Features

- Provide 1 Gigabit RJ-45 Copper Port & 1 SFP Port 100Base-FX or 1000Base-X
- Support 9K Jumbo Frames
- Dual Wide-Range Power Input (12~48 VDC)
- Relay Output for Fault Alarm Notification (Power, Ports)
- Aluminum Housing
- Operating Temperature -40˚C~75˚C

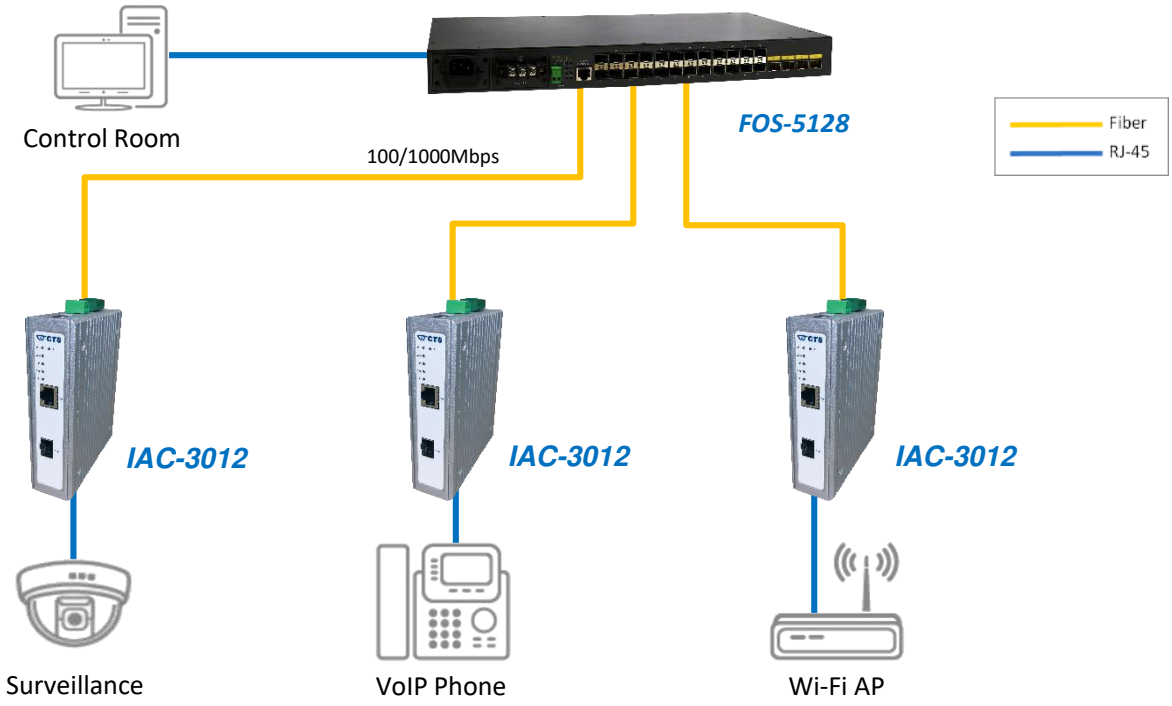
Description

Connection Technology Systems (CTS) IAC-3012 media converter is a Gigabit Ethernet 10/100/1000 Base-T to 100/1000Base-X media converter. The IAC-3012 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 IAC-3012 media converter is designed for deployment at industrial sites. With DIN-Rail mounting, you can easily mount the industrial 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 IAC-3012 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.

Application Diagram



Specification

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

■Standards
- IEEE 802.3 10Base-T
- IEEE 802.3u 100Base-TX/FX
- IEEE 802.3ab 1000Base-T
- IEEE 802.3z 1000Base-X

■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
- Packet Buffer: 128K Bytes
- Relay Output
- Surge Protection: 6KV (K.21)

■LED
P1, P2, ALM, TP, SFP

■Ethernet Features
Jumbo Frames: 9K Bytes

■Other Features
- DIP Switch Configuration
- Installation Type: DIN Rail Mounting

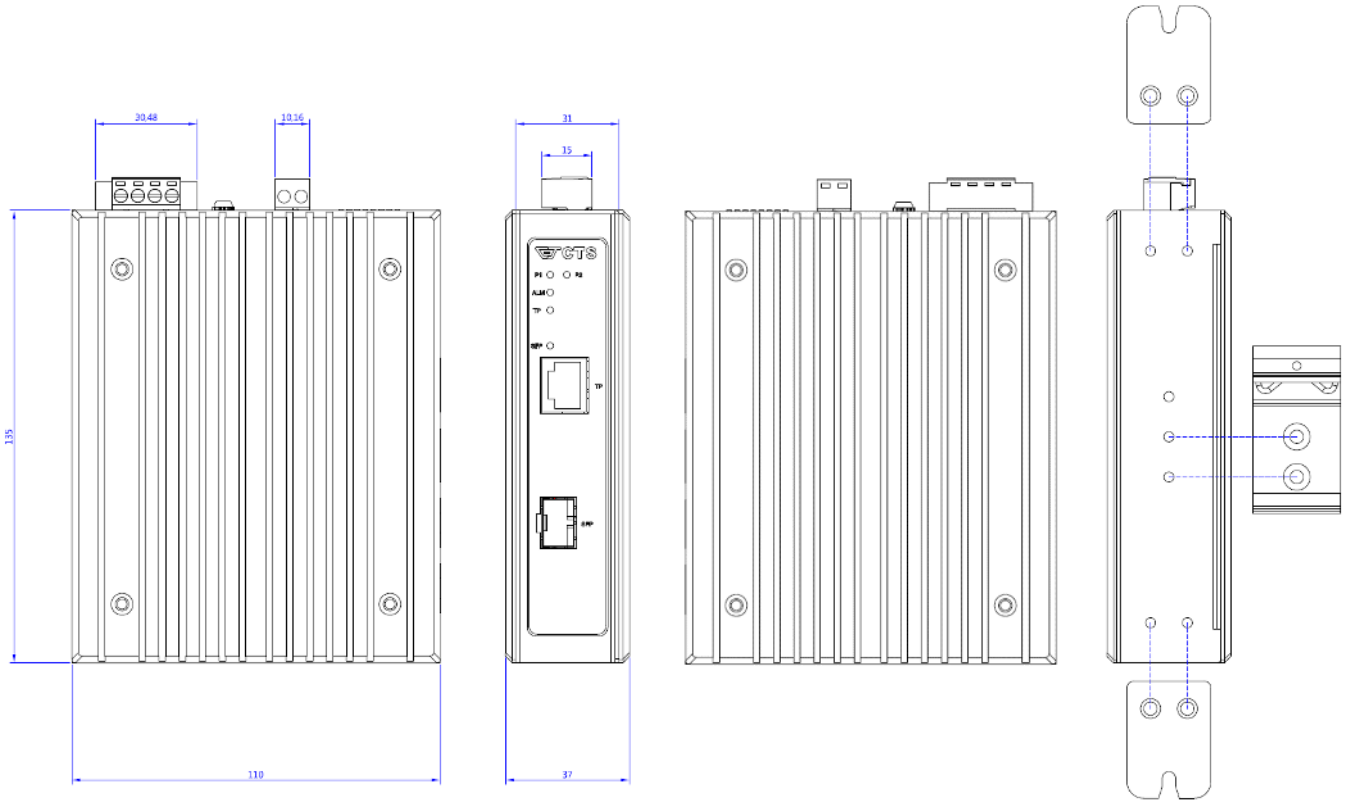
■Environmental Condition
- Operating Temperature: -40˚ ~ 75˚C
- Storage Temperature: -40˚ ~ 85˚C
- Humidity: 5% ~ 90%, non-condensing

■Power Requirement
DC Input:
- Terminal Block x 1 with two power inputs
- Input Voltage: 12 ~ 48VDC
- Power Consumption: 3.4W (Max.)

■Dimension & Weight
- Size: 36 x 110 x 135 mm (W x D x H)
- Weight: 0.56Kg
- 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)

Order Information

IAC-3012

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

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

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

Model	Fiber Port					Operating Temperature
	Speed	Type	Connector	Distance	Wavelength	
SFP-31FC-D	1000Mbps	MM	LC	550M	850nm	-40˚C ~ 85˚C
SFP-31FC-(MM-02)-D	1000Mbps	MM	LC	2KM	1310nm	-40˚C ~ 85˚C
SFP-31FC(SM-10/20)-D	1000Mbps	SM	LC	10/20KM	1310/1310nm	-40˚C ~ 85˚C
SFP-31W2A(SM-10/20)-D	1000Mbps	WDM	LC	10/20KM	TX: 1310/1310nm RX: 1550/1550nm	-40˚C ~ 85˚C
SFP-31W2B(SM-10/20)-D	1000Mbps	WDM	LC	10/20KM	TX: 1550/1550nm RX: 1310/1310nm	-40˚C ~ 85˚C

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