

WPC-3012 Series Media Converter



Features

- **IEEE 802.3at PoE/PSE**
Support IEEE 802.3at PoE feature to feed power to remote device and facilitate the deployment in the power unreachable application.
- **Link Alarm**
Supports link alarm function to help network administrator rapidly managing and recovering network fault.
- **Power Redundancy over DC Input by DC Jack and Terminal Block**
Support power redundancy over DC input to keep the healthy network connection without power outage risk for general industrial application.
- **9K Bytes Jumbo Frames**
Support jumbo frame size 9K bytes to ease the network traffic loading and facilitate IPTV service.
- **DIN RAIL/Wall Mounting Installation Type**
Support both DIN RAIL and wall mounting type to facilitate the installation flexibility for general industrial applications.
- **Operating Temperature -20°C ~ 60°C**
Support extended operating temperature to guarantee the reliability and stability under the critical environmental condition with affordable cost.

Target Applications

- Point-to-point fiber connection for long distance as well as PoE/PSE enabled equipment which requires reliable and stable link under critical environmental condition of general industrial application.

Gigabit Ethernet 10/100/1000Base-TX to 1000Base-FX Media Converter Built-in
IEEE802.3at PoE/PSE Feature with Extended Operating Temperature

Description

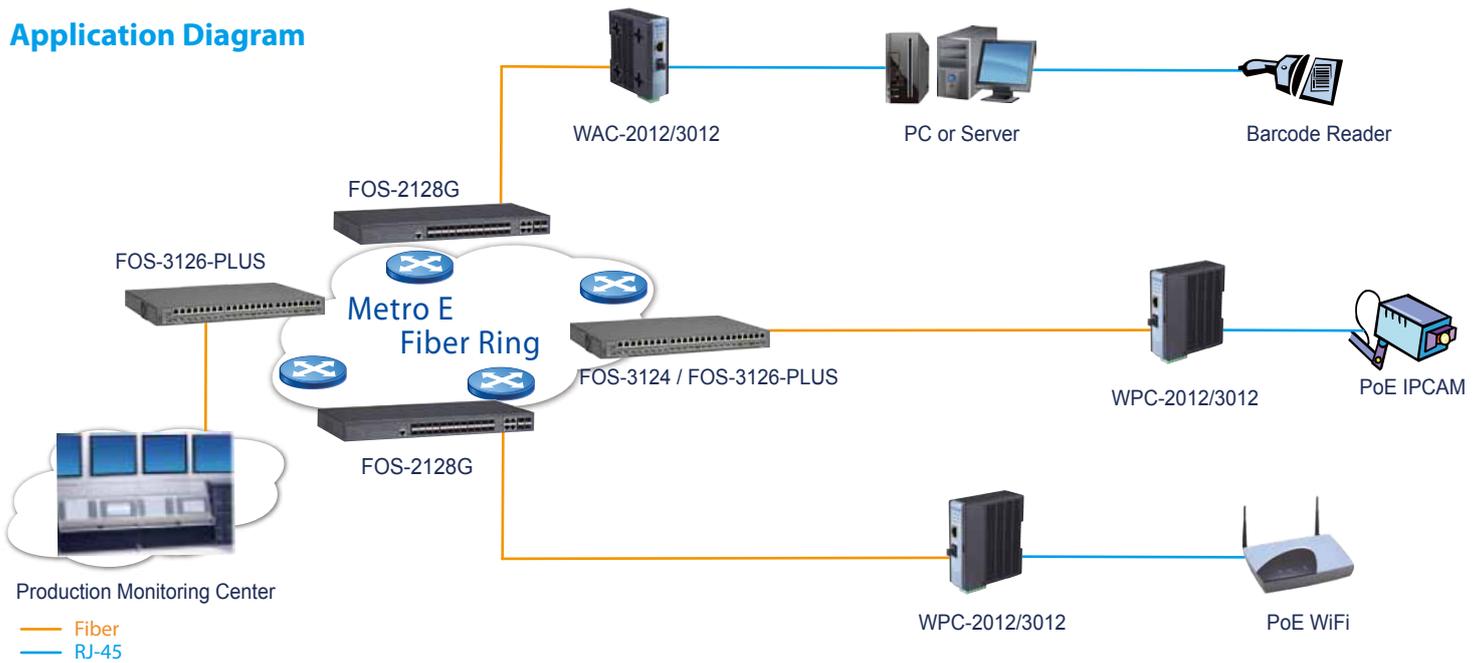
Connection Technology Systems (CTS) WPC-3012 series media converter are the Gigabit Ethernet 10/100/1000 Base-T to 1000Base-X media converter. The WPC-3012 series media converter converts traditional twisted-pair RJ45 cable into various fiber media including multi-mode, single-mode, SC connector, bi-directional WDM, or a SFP slot for pluggable fiber transceiver. The traditional transmission distance of 100m over RJ45 copper can be extended from 550m to 80km over fiber.

WPC-3012 series media converter adopts the brand new ID appearance as well as the well considered designs for the demand of different customer segments. The flexible power options have either DC power or AC/DC power adaptor to fulfill most of practical deployment scenarios. The extended operating temperature of WPC-3012 media converter is from -20 °C to 60 °C which makes user install the equipment under critical environment without reliable and stable concerns. It is especially designed for network operators, metro Ethernet providers, enterprise, SMB customer segment, who have the need of implementing fiber optical Ethernet networks over long distance for FTTH solutions with the demand of wide operating temperature, and are looking for an effortless and robust 1000Mbps media converter.

WPC-3012 series media converter is fully compliant with IEEE 802.3, 802.3u, 802.3ab & 802.3z standards. Besides, it is equipped with some switching features including flow control and store and forward. Additionally, Link Alarm feature enables administrator to monitor the fiber link status in visually and intuitively mechanism.

WPC-3012 series media converter is built in PoE/PSE feature which complies to IEEE802.3at standard. With PoE/PSE enabled feature, WPC-3012 can significantly solve the installation obstacle for the user in the power unreachable situation. It can actively feed power to the remotely equipment which can not have the power source available and simply facilitate the user applications be deployed smoothly.

Application Diagram



Specification

Interface

TP Port
10/100/1000Base-T RJ45 x 1
F/O Port
1000Base-X x 1

Standards

IEEE 802.3 10Base-T
IEEE 802.3u 100Base-TX
IEEE 802.3ab 1000Base-T
IEEE 802.3z 1000Base-X
IEEE 802.3x Flow Control
IEEE 802.3at PoE/PSE

H/W Specification

Auto-Negotiation in TX Port
MDI/MDIX Auto-Crossover Supported
Support Link Alarm
Support Auto & Force Mode Configuration
1K MAC Address Table

LED

PW ADC, PW T1, PW T2, TP Link/ACT, Speed, FDX, F/O Link/ACT, PWR/Port Status, PoE

Ethernet Features

Support 9K Bytes Jumbo Frames
Support Flow Control
Store and Forward Switching Mechanism

Other Features

DIP Switch Configuration

Installation Type

Wall Mounting
DIN Rail Mounting

Power Requirement

DC Input:
DC Power Jack x 1
Terminal Block x 2
Input Voltage: 48VDC

Power Consumption
DC48V Input: 34W (Max.)

Environmental Condition

Operating Temperature: -20° ~ 60°C
Storage Temperature: -20° ~ 70°C
Humidity: 5% ~ 90%, non-condensing

Dimension & Weight

Size: 105x93x35 mm (WxDxH)
Shipping Weight: 0.42Kg

EMC/Safety

FCC Part 15 Class A, CE
* For further reports, please contact us for update

Order Information

MODEL	FIBER PORT					TP PORT	
	Speed	Fiber Type	Connector	Distance	Ports	Speed	Ports
WPC-3012BTFC	1000	MM	SC	550M	1	10/100/1000	1
WPC-3012BTFC(SM-10/20/30/50/80)	1000	SM	SC	10/20/30/50/80KM	1	10/100/1000	1
WPC-3012W2A(SM-10/20/40)	1000	WDM	SC	10/20/40KM	1	10/100/1000	1
WPC-3012W2B(SM-10/20/40)	1000	WDM	SC	10/20/40KM	1	10/100/1000	1
WPC-3012SFP	1000	SFP	-	-	1	10/100/1000	1

OPTIONAL POWER ADAPTOR ACCESSORY FOR WPC SERIES PRODUCTS

WAP-POWER-48J90	48V/90W AC to DC POWER ADAPTOR FOR WAC/WPC/WAS SERIES PRODUCTS	US/UK/AU/EU Standard Working TEMP. range:0°~50°C
WAP-POWER-48D75	48V/75W DIN RAIL POWER SUPPLY FOR WAC/WPC/WAS SERIES PRODUCTS	Working TEMP. range:0°~50°C
WAP-POWER-48D240	48V/240W DIN RAIL POWER SUPPLY FOR WAC/WPC/WAS/WPS SERIES PRODUCTS	Working TEMP. range:-20°~60°C