

WAC-3012 Series Media Converter



Features

- **Link Alarm**
Support link alarm function to help network administrators rapidly manage and recover network faults
- **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 applications
- **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 which requires reliable and stable link under critical environmental condition of general industrial application.

Gigabit Ethernet 10/100/1000Base-T to 1000Base-X Media Converter with extended operating temperature

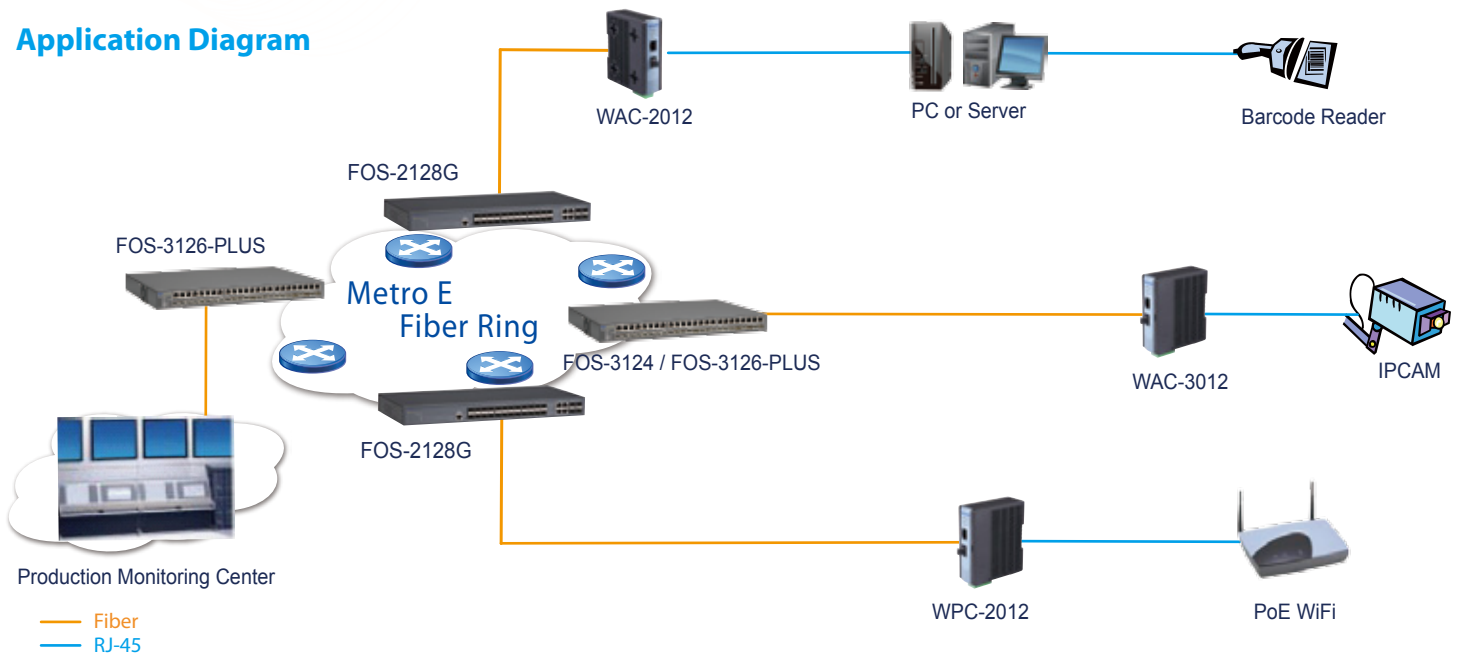
Description

Connection Technology Systems (CTS) WAC-3012 series media converters are the Gigabit Ethernet 10/100/1000Base-T to 1000Base-X media converter. The WAC-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.

WAC-3012 series media converters adopt 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 WAC-3012 media converter is from -20 °C to 60°C which makes users 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 FTTx solutions with the demand of wide operating temperature, and are looking for an effortless and robust 1000Mbps media converter.

WAC-3012 series media converter are 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 administrators to monitor the fiber link status in visual and intuitive mechanism.

Application Diagram



Specification

Interface

TP Port
Shielded 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

H/W Specification

Auto-Negotiation in TX port
MDI/MDIX Auto-Crossover supported
Support Link Alarm
1K MAC Address Table
32K Bytes Memory Buffer

LED

ADC PWR, DC PWR T1, DC PWR T2 TP
Link/ACT, Speed, FDX
F/O Link/Act, PWR/Port Fault

Ethernet Features

Support 9K Bytes jumbo frame
Support Flow Control
Store and Forward Switching Mechanism

Other Features

DIP Switch configuration

Installation Type

Wall Mounting
DIN Rail Mounting

Power Requirement

DC Input
Input Voltage: 12 to 48VDC
(terminal block)

AC/DC Power Adaptor (Optional)

- AC input: 100VAC~240VAC
- Frequency range: 50~60Hz
- DC output: 12V, 1.5A
Power Consumption: 3.9W Max

Environmental Condition

Operation: -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		Power Accessory Type
	Speed	Fiber Type	Connector	Distance	Ports	Speed	Ports	
WAC-3012BTFC	1000	MM	SC	550M	1	10/100/1000	1	-
WAC-3012BTFC(SM-10/20/30/50/80)	1000	SM	SC	10/20/30/50/80KM	1	10/100/1000	1	-
WAC-3012W2A(SM-10/20/40)	1000	WDM	SC	10/20/40KM	1	10/100/1000	1	-
WAC-3012W2B(SM-10/20/40)	1000	WDM	SC	10/20/40KM	1	10/100/1000	1	-
WAC-3012SFP	1000	SFP	-	-	1	10/100/1000	1	-

OPTIONAL POWER ADAPTOR ACCESSORY FOR WAC SERIES PRODUCTS

WAP-PW-12J18	12V/18W AC to DC POWER ADAPTOR FOR WAC/WPC/WAS SERIES MEDIA CONVERTERS	US/UK/AU/EU Standard Working TEMP. range:0°~50°C
WAP-PW-48J90	48V/90W AC to DC POWER ADAPTOR FOR WAC/WPC/WAS SERIES MEDIA CONVERTERS	
WAP-PW-48D75	48V/75W DIN RAIL POWER SUPPLY FOR WAC/WPC/WAS SERIES MEDIA CONVERTERS	
WAP-PW-48D240	48V/240W DIN RAIL POWER SUPPLY FOR WAC/WPC/WAS SERIES MEDIA CONVERTERS	