

WPC-2112 Series Media Converter



Features

- **IEEE802.3at/af PoE/PSE**
Support IEEE802.3at/af PoE feature to feed power to remote devices 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 Terminal Blocks**
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.
- **Power-Down Trap**
Built-in CTS unique SNMP power-down trap function to rapidly identify network fault due to power outage and reduce truck rolls to save OPEX for operators or service providers.
- **DIN-Rail/Wall Mounting installation types**
Support both DIN-rail and wall mounting types to facilitate the installation flexibility for general industrial application.
- **Operating Temperature -20°C ~ 60°C**
Device supports extended operating temperature to guarantee the reliability and stability in the critical environmental condition with affordable cost.

Target Applications

- **SNMP managed Gigabit Ethernet media converter for point-to-point fiber connection which requires reliable and stable link under critical environmental condition of general industrial application.**

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

Description

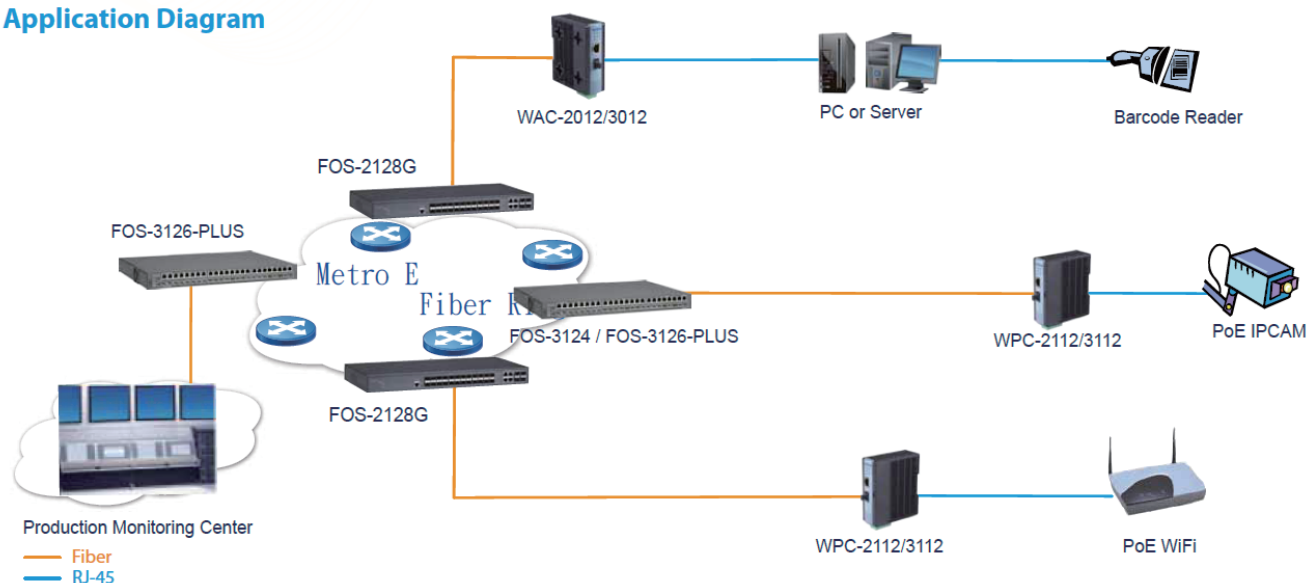
Connection Technology Systems (CTS) WPC-2112 series media converter are Fast Ethernet 10/100Base-TX to 100Base-FX media converter which is designed to fulfill the emerging deployment needs of fiber Ethernet network for operators and service providers with SNMP managed functionality.

When WPC-2112 is deployed at customer premises, the media converter can be fully managed by the network equipment in the Central Office site by popular SNMP based network management server (NMS). By leveraging the benefits of CTS unique SNMP based power down trap feature, the WPC-2112 is able to send SNMP based trap message to NMS immediately when detects power failure on converter at customer site. It can significantly reduce truck rolls and save the operational cost (OPEX) for operators or service providers.

The flexible power options that WPC-2112 provides have either DC power or AC/DC power adaptor to fulfill most of practical deployment scenarios. The extended operating temperature of WPC-2112 media converter is from -20 °C to 60 °C which enables users to 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 100Mbps media converter.

WPC-2112 series media converter is fully compliant with IEEE 802.3, 802.3u, 802.3at/af standards. Besides, it is equipped with some switching features including flow control and store and forward. Additionally, Link Alarm feature enables the administrator to monitor the fiber link status in visually and intuitively mechanism.

Application Diagram



Specification

Interface

TP Port
10/100Base-TX RJ45 x 1
F/O Port
100Base-FX x 1

Standards

IEEE 802.3 10Base-T
IEEE 802.3u 100Base-TX
IEEE 802.3x Flow Control
IEEE 802.3af Power over Ethernet
IEEE 802.3at Power over Ethernet Enhancements

H/W Specification

Auto-Negotiation in TX Port
MDI/MDIX Auto-Crossover Supported
Support Link Alarm
1K MAC Address Table
12K Bytes Memory Buffer

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
Wire Speed Store and Forward Switching
Mechanism

Network Management

Web, SNMP
DHCP Client
Power Down Trap
HTTP firmware Upgrade

Other Features

DIP Switch Configuration
Reset to Default Push Button

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:
DC 48V Input: 36W (Max.)

Environmental Condition

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

Dimension & Weight

Size: 35x93x105 mm (WxDxH)
Weight: 0.4kg

EMC/Safety

FCC Part 15 Class A, CE

Order Information

WPC-2112

MODEL	FIBER PORT					TP PORT	
	Speed	Fiber Type	Connector	Distance	Ports	Speed	Ports
WPC-2112BTFC	100Mbps	MM	SC	2KM	1	10/100Mbps	1
WPC-2112BTFT	100Mbps	MM	ST	2KM	1	10/100Mbps	1
WPC-2112BTFC(SM-30/50/80/100)	100Mbps	SM	SC	30/50/80/100KM	1	10/100Mbps	1
WPC-2112W2A(SM-20/40)	100Mbps	WDM	SC	20/40KM	1	10/100Mbps	1
WPC-2112W2B(SM-20/40)	100Mbps	WDM	SC	20/40KM	1	10/100Mbps	1
WPC-2112SFP	100Mbps	SFP	-	-	1	10/100Mbps	1

Power Supply

WAP-POWER-48J90	48V/90W AC to DC Power Adaptor	Working Temperature : 0°C~50°C, 90W
WAP-POWER-48D75/DR-75-48	48V/75W DIN-Rail Power Supply	Working Temperature : -10°C~50°C, 75W 50°C~60°C, output derating 4.0% per degree (45W at 60°C)
SDR-75-48	48V/75W DIN-Rail Power Supply	Working Temperature : -25°C~60°C, 75W 60°C~70°C, output derating 2.5% per degree (56W at 70°C)
WAP-POWER-48D240/SDR-240-48	48V/240W DIN-Rail Power Supply	Working Temperature : -25°C~60°C, 240W 60°C~70°C, output derating 2.5% per degree (180W at 70°C)

SFP-20

MODEL	COPPER PORT					Temperature
	Speed	Type	Connector	Distance		
SFP-20TP	100Mbps	-	RJ-45	100M		0°C to 70°C

SFP-21

MODEL	FIBER PORT					
	Speed	Type	Connector	Distance	Wavelength	Temperature
SFP-21FC	100Mbps	MM	LC	2KM	1310nm	0°C to 70°C
SFP-21FC(SM-20/40/80)	100Mbps	SM	LC	20/40/80KM	1310nm/1310nm/1550nm	0°C to 70°C
SFP-21W2A(SM-20/40/80)	100Mbps	WDM	LC	20/40/80KM	TX:1310nm/1310nm/1490nm RX:1510nm/1510nm/1570nm	0°C to 70°C
SFP-21W2B(SM-20/40/80)	100Mbps	WDM	LC	20/40/80KM	TX:1510nm/1510nm/1570nm RX:1310nm/1310nm/1490nm	0°C to 70°C
SFP-21W2A(SM-20)SC	100Mbps	WDM	SC	20KM	TX:1310nm RX:1550nm	0°C to 70°C
SFP-21W2B(SM-20)SC	100Mbps	WDM	SC	20KM	TX:1550nm RX:1310nm	0°C to 70°C
SFP-21FC-C11	100Mbps	CWDM	LC	80KM	1470nm	0°C to 70°C
SFP-21FC-C12	100Mbps	CWDM	LC	80KM	1490nm	0°C to 70°C
SFP-21FC-C13	100Mbps	CWDM	LC	80KM	1510nm	0°C to 70°C
SFP-21FC-C14	100Mbps	CWDM	LC	80KM	1530nm	0°C to 70°C
SFP-21FC-C15	100Mbps	CWDM	LC	80KM	1550nm	0°C to 70°C
SFP-21FC-C16	100Mbps	CWDM	LC	80KM	1570nm	0°C to 70°C
SFP-21FC-C17	100Mbps	CWDM	LC	80KM	1590nm	0°C to 70°C
SFP-21FC-C18	100Mbps	CWDM	LC	80KM	1610nm	0°C to 70°C