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Preliminary

FMC-1000-PH
10/100/1000Base-T to 1000Base- FX/SX/LX
with PoE+ (PSE) Fiber Converter

FMC-1000S-PH
10/100/1000Base-T to 100/1000Base-X SFP
with PoE+ (PSE) Fiber Converter

FMC-1000(S)-PH is a family of unmanaged Gigabit Ethernet media converters that support conversion between electrical 10/100/1000Base-T and optical 1000Base-X Ethernet and as PSE (Power Source Equipment) provide PoE+ power over Ethernet. Two options are available for optical interfaces, the FMC-1000-PH uses a fixed optical transceiver operating at 1000Base-X, while the FMC-1000S-PH provides an SFP cage for 100/1000Base-X compatible SFP modules.
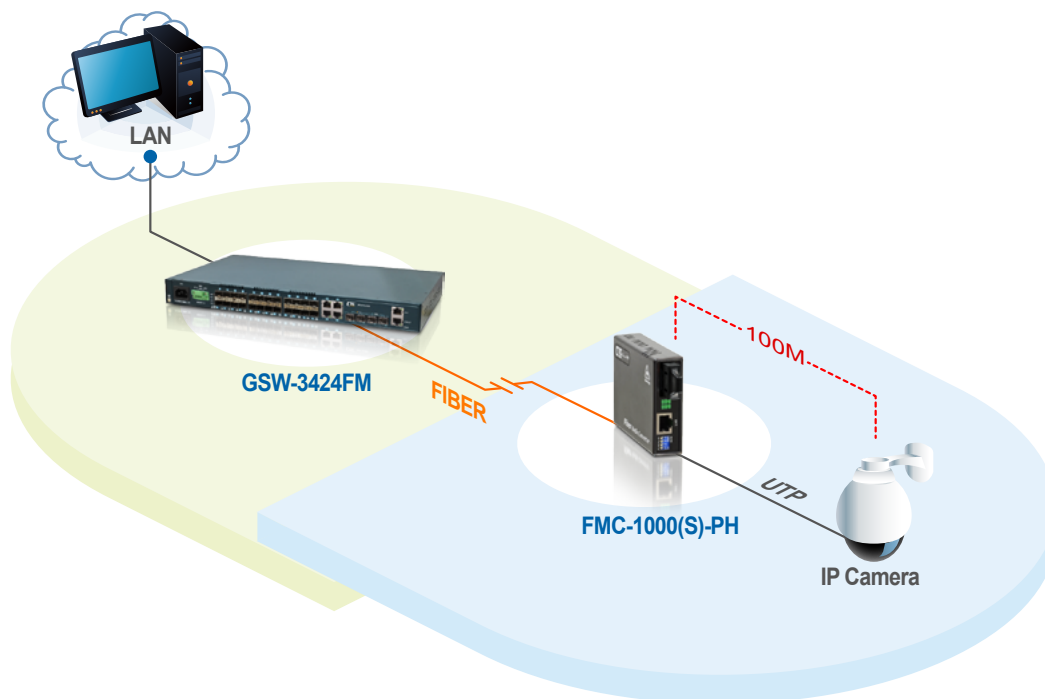
Features

- Conversion between 10/100/1000Base-T and 1000Base-X Fiber cable interface
- Supports dual rate (100/1000) SFP for selectable Fast or Gigabit speed on fiber (FMC-1000S-PH)
- PoE output voltage upto 55VDC
- Supports IEEE802.3at/af PoE , output 30Watts Power Budget
- Supports LFPT (Link Fault Pass Through)

- Supports DIP SW for setting LFPT,Switch or Converter mode,SFP speed
- Wall Mount and compact size for easy installation
- Supports Jumbo frame 9K bytes packet
- CE, FCC, Certification

Specifications

Standard	IEEE802.3 10Base-T IEEE802.3u 100Base-T(X) IEEE802.3u 100Base-FX IEEE802.3ab 1000Base-T(X) IEEE802.3z 1000Base-SX/LX IEEE802.3x Flow Control and Back pressure IEEE802.3at Power over Ethernet + PoE+ IEEE802.3af Power over Ethernet, PoE
RJ45 Ports	10/100/1000Base-T
Fiber Ports	1000Base SX/LX (FMC-1000-PH) 100/1000Base SFP (FMC-1000S-PH)
Data process Architecture	Store and Forward mode or Pass through mode set by DIP SW
Jumbo Frame	9K bytes
Fiber parameters	Fiber Cable (Multi-mode): 50/125um,62.5/125um Fiber Cable (Single-mode):9/125um Wavelength: 1310nm (Multi-mode/Single-mode) Available distance: 500M (Multi-mode SX) 　　　　　　　　　　　(FMC-1000-PH) 　　　　　　　　　　20KM (Single-mode) 　　　　　　　　　　40KM (Single-mode) SFP, Distance depend on plug-in Fiber Transceiver (FMC-1000S-PH)
Link Fault Pass through (LFPT)	TX-- Fiber: If TX port link down, the media converter will force Fiber port to link down Fiber--TX: If Fiber port link down, the media converter will force TX port to link down
DIP Switch	Off : LFPT Disable　　On: LFPT Enable
	Data process Architecture Off : Store and Forward Switch mode On : Pass through mode
	Fiber Mode: Off: Auto　　On:Force
	SFP Fiber Speed Off: 1000BaseX　On: 100Base X　Only for FMC-1000S
Connector and Pin assignment	SC (Multi-mode, 500M), SC (Single-mode, 20KM, 40KM) (FMC-1000-PH)
	SFP Slot (FMC-1000S-PH)
	RJ-45 Socket: CAT-3/5 (10/100Mbps) Twisted Pair cable Auto MDI/MDI-X and Auto-Negotiation Function Support RJ-45 port support IEEE 802.3at/af End-Span, Alternative A mode. Positive (V+): RJ-45 pin 1, 2. Negative (V-): RJ-45 pin 3, 6. Data : 1,2,3,6,4,5,7,8

LED	Per Unit: Power (Green)
	Fiber LNK/ACT (Green):
	RJ-45 port: 100LK/Act (Green) 1000LK/Act (Green) Dup/Col (Green)
	PoE Status (Green): Flash: PoE Fault (Over-load or short), On: PoE normal working Off : PoE No Power output
Power Input	48V~57VDC Input (Ship with 56VDC Power Adapter)
Power Apapter	Input 100/110/120/220/240 VAC (Wide Range) Output 36W ,56VDC
PoE Power Budget	30W
Power Consumption	TBD
Operating Humidity	10 ~ 90% non-condensing
Operating Temperature	0°C ~ 50°C (FMC-1000-PSE ,FMC-1000S-PSE)
Storage Temperature	-40°C ~ 85°C
Housing	Plastic
Dimension	108 x 74 x 23mm (D x W x H)
Weight	TBD
Installation	Desk top or Wall Mounting (Optional)
EMC	FCC Class A, CE
MTBF	TBD

Specifications & design are subject to change without prior notice. Please visit CTC Union website for more details.

5-5　　**CTC union**　www.ctcu.com　sales@ctcu.com　　　　FMC-1000-PH & FMC-1000S-PH

Application

LAN

GSW-3424FM

FIBER

100M

FMC-1000(S)-PH

UTP

IP Camera

Ordering Information

Model Name	Description
FMC-1000-PH	10/100/1000Base-T to 1000Base-FX/SX/LX With PoE+ (PSE) Fiber Converter (30W)
FMC-1000-PH-WM	10/100/1000Base-T to 1000Base-FX/SX/LX With PoE+ (PSE) Fiber Converter (30W) with wall mount kit
FMC-1000S-PH	10/100/1000Base-T to 100/1000Base-X SFP With PoE+ (PSE) Fiber Converter (30W)
FMC-1000S-PH-WM	10/100/1000Base-T to 100/1000Base-X SFP With PoE+ (PSE) Fiber Converter (30W) with wall mount kit

Connector Type	Connectivity Distance				
SC	M/M	001: 500m	002: 2km	S/M	010: 10km 020: 20km 040: 40km
	BiDi	20A: WDM 20km A type		20B: WDM 20km B type	

Wall-Mount Kits   Connect Type

FMC – 1000S-PH- ☐☐ – ☐☐☐☐

Example: FMC – 1000S-PH- WM – SC002

Wall-Mount Type

Non Wall-Mount Type

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