GSW-3216MP

16 Ports 10/100/1000Base-TX + 2 Ports GbE SFP Slot Managed PoE Switch

The GSW-3216MP is a cost-effect high performance Gigabit L2 PoE switch-16x 10/100/1000Mbps TX ports and 2x SFP ports are supported. This switch supports remote management by SNMP, Http and Telnet interfaces, and local management by console interface. Console interface is supported for some basic settings. The GSW-3216MP supports lots of L2 switch functions, e.g. 802.1Q VLAN, 802.1x Port Security, Rate Control, Port Configuration, Port Mirroring, Port Statistics, QoS functions, ...etc. Auto-MDIX function is supported for every TX port of the switch for easy cable connection. The GSW-3216MP is compliant with IEEE802.3af and the pre-standard of 802.3at. The 16x 10/100/1000Mbps TX ports are selectable to provide up to 15.4 or 30 watts power to connect PoE supported devices.

Features

- 16x RJ45 ports, with 10/100/1000Mbps
- 2x Dual Speed SFP sockets, Port17 and Port18
- Port 1 ~ Port 16 support PSE function
- IPv6 management
- 8 priority queues are supported on each port for QoS application
- Private VLAN, 802.1Q VLAN, Voice VLAN and Q-in-Q(double tagging) function
- Protected port and LoopBack Detection function
- IEEE 802.1x security function, and VLAN assignment, Guest VLAN functions
- Static Mac address access limit and Dynamic Mac address number on port
- IEEE802.1d & 802.1w & 802.1s
- IP Multicast with IGMP snooping / query / fast leave / filtering / group limited /MVR
- DHCP Client / DHCP Option 82 Relay / DHCP Snooping function
- ACL function for L2 ~ L4 packet control
- Ingress/Egress rate control on port
- Broadcast/Multicast/Unicast storm control
- ARP inspection / IP source guard
- RMON 1,2,3,9
- SFP Transceiver DDMI function / Dual Speed SFP Ports(100/1000Mbps)
- Remote port configuration setting and statistics monitoring
- Text configuration download and upload
- IEEE 802.3az power management

Specifications

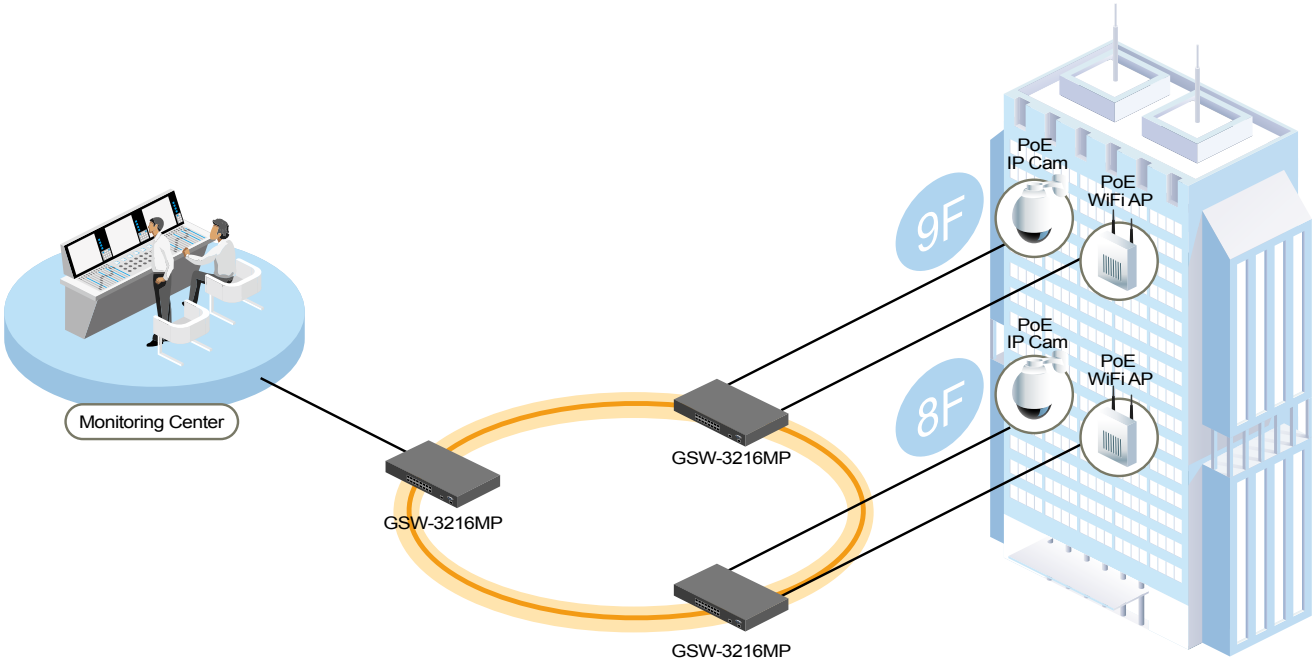
System	
10/100/1000 BASE-T	16
100/1G SFP Slot	2 (Port 17, Port 18)
CPU	416MHz MIPS 24KEc CPU as the main processor which integrated on switch controller
Memory	Flash : SPI 16MB / RAM:DDRII 128MB
Packet buffer	4M bits
MAC Table size	8K
Switching capability	14880pps at 10Mbps, 148810pps at 100Mbps, 1488095pps at 1Gbps with 64 bytes packets
Switch capacity	36Gbps
Forwarding Rate	26.7Mpps
PoE Standard	IEEE802.3af & IEEE802.3at
PoE Ports	16 Ports(Port 1 ~ Port 16) Per Port 56V DC, 350mA . Max. 15.4Watts Per Port 56V DC, 600mA . Max. 30Watts
PoE Power Budget	150Watts
Power PIN Assignment	1/2(-), 3/6(+)
Console port	D-Sub 9
19" Rack-Mount	Yes, with kits
SFP DDMI	Yes
Dimension	330mm x 204mm x 44mm
Environmental Temperature	Operating: 0 ~ 50°C / Storage: -25 ~ 70°C
Humidity	10% ~ 90% (non-condensing)
LED Display	Per Port : Link/Act , PoE Act Per Device : Power, System
Power Input	AC Power input (100V~240V)

Software	
Port Control	Port speed, duplex mode, and flow control Port Auto MDI/MDI-X Port frame size (jumbo frames), Maximum ingress frame size (10056 bytes) Port state (administrative status) Port status (link monitoring) Port statistics (MIB counters)
L2 Switching	Auto MAC address learning/aging and MAC addresses (static) DHCP snooping ARP inspection Port Mirroring Flow mirroring
L3 Switching	DHCP option 82 relay IPv4 Unicast: Static routing
VLANs	IEEE 802.1Q static VLAN(4096 entries Max.), Voice VLAN, Port isolation, Private VLAN Static, MAC based VLAN, Protocol based VLAN, IP subnet based VLAN
Spanning Tree	IEEE 802.1s MSTP(Multiple spanning tree) IEEE 802.1w RSTP(Rapid spanning tree) IEEE 802.1D STP(Spanning tree) BPDU Guard & Restricted Role
Link Aggregation	Static and LACP
IP Multicast	IGMP v2 and v3 snooping MLD v1 snooping IGMP filtering profile IPMC throttling, filtering, leave proxy MVR and MVR profile

QoS	Traffic Classes (8 active priorities) Port Default Priority, User Priority, Input priority mapping QoS Control List (QCL Mode) Storm Control for UC, BC and Unknown Port policers Global/VCAP (ACL) policers Port egress shaper Queue egress shapers DiffServ (RFC2474) remarking Tag remarking Scheduler mode
Security	Port-Based 802.1X, Single 802.1X, Multiple 802.1X, MAC-Based Authentication VLAN Assignment , QoS Assignment, Guest VLAN RADIUS Accounting MAC Address Limit IP MAC binding, IP/MAC binding dynamic to static TACACS+ Web & CLI Authentication Authorization (15 user levels) ACLs for filtering/policing/port copy IP source guard

Synchronization	NTPv4 Client
SFP DDMI	Yes
Management	DHCP Client, DNS client, proxy HTTP Server CLI - Console Port & Telnet Text Configuration download or upload Management access filtering HTTPS SSHv2 IPv6 Management System Syslog Software Upload via web SNMP v1 / v2c / v3 Agent RMON (Group 1, 2, 3 & 9) RMON alarm and event(CLI,web) SNMP multiple trap destinations IEEE 802.1AB-2005 Link Layer Discovery LLDP Cisco Discovery filtering - CDP sFlow Daylight Saving

Application



Ordering Information

Model Name	Description
GSW-3216MP	16 ports 10/100/1000Base-TX + 2 ports GbE SFP slot L2 Managed PoE Switch

Revised - 03. 2015

GSW-3208MP

8 Ports 10/100/1000Base-TX + 2 Ports GbE SFP Slot L2 Managed PoE Switch

The GSW-3208MP is a cost-effect high performance Gigibit L2 PoE switch - 8x10/100/1000Mbps TX ports and 2x SFP ports are supported. This switch supports remote management by SNMP, Http and Telnet interfaces, and local management by console interface. Console interface is supported for some basic settings. The GSW-3208MP supports lots of L2 switch functions, e.g. 802.1Q VLAN, 802.1x Port Security, Rate Control, Port Configuration, Port Mirroring, Port Statistics, QoS functions, ...etc. Auto-MDIX function is supported for every TX port of the switch for easy cable connection. The GSW-3208MP is compliant with IEEE802.3af and the pre-standard of 802.3at. The 8x10/100/1000Mbps TX ports are selectable to provide up to 15.4 or 30 watts power to connecte PoE supported devices.

Features

- 8x RJ45 ports, with 10/100/1000Mbps
- 2x Dual Speed SFP sockets, Port 9 and Port 10
- Port 1 ~ Port 8 support PSE function
- IPv6 management
- 8 priority queues are supported on each port for QoS application
- Private VLAN, 802.1Q VLAN, Voice VLAN and Q-in-Q(double tagging) function
- Protected port and LoopBack Detection function
- IEEE 802.1x security function, and VLAN assignment, Guest VLAN functions
- Static Mac address access limit and Dynamic Mac address number on port
- IEEE802.1d & 802.1w & 802.1s
- IP Multicast with IGMP snooping / query / fast leave / filtering / group limited /MVR
- DHCP Client / DHCP Option 82 Relay / DHCP Snooping function
- ACL function for L2 ~ L4 packet control
- Ingress/Egress rate control on port
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- ARP inspection / IP source guard
- RMON 1,2,3,9
- SFP Transceiver DDMI function / Dual Speed SFP Ports(100/1000Mbps)
- Remote port configuration setting and statistics monitoring
- Text configuration download and upload
- IEEE 802.3az power management

Specifications

System	
10/100/1000 BASE-T	8
100/1G SFP Slot	2 (Port 9, Port 10)
CPU	416MHz MIPS 24KEc CPU as the main processor which integrated on switch controller
Memory	Flash : SPI 16MB / RAM:DDRII 128MB
Packet buffer	4M bits
MAC Table size	8K
Switching capability	14880pps at 10Mbps, 148810pps at 100Mbps, 1488095pps at 1Gbps with 64 bytes packets.
Switch capacity	20Gbps
Forwarding Rate	14.8Mpps
PoE Standard	IEEE802.3af & IEEE802.3at
PoE Ports	8 Ports(Port 1 ~ Port 8) Per Port 56V DC, 350mA . Max. 15.4Watts Per Port 56V DC, 600mA . Max. 30Watts
PoE Power Budget	150Watts
Power PIN Assignment	1/2(-), 3/6(+)
Console port	D-Sub 9
19" Rack-Mount	Yes, with kits
SFP DDMI	Yes
Dimension	330mm x 204mm x 44mm
Environmental Temperature	Operating: 0 ~ 50°C / Storage: -25 ~ 70°C
Humidity	10% ~ 90% (non-condensing)
LED Display	Per Port : Link/Act , PoE Act Per Device : Power, System
Power Input	AC Power input (100V~240V)

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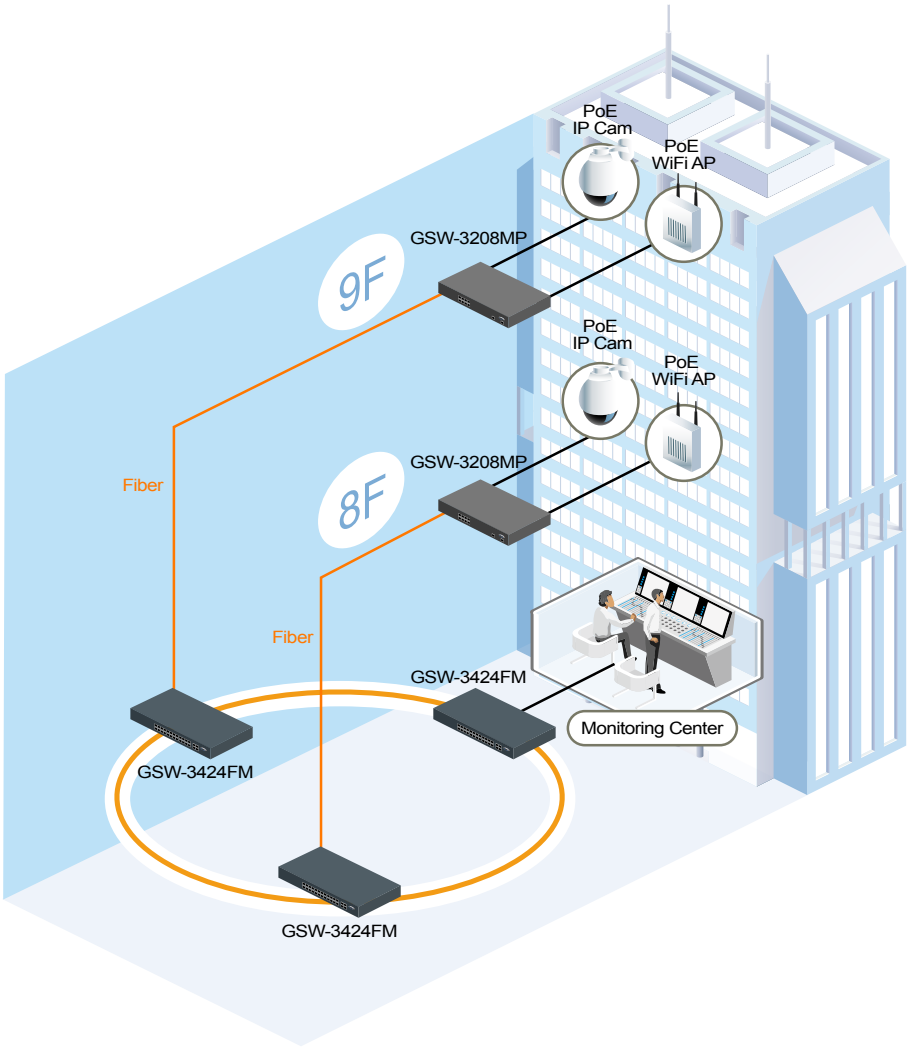
Synchronization	NTPv4 Client
SFP DDMI	Yes
Management	DHCP Client, DNS client, proxy HTTP Server CLI - Console Port & Telnet Text Configuration download or upload Management access filtering HTTPS SSHv2 IPv6 Management System Syslog Software Upload via web SNMP v1 / v2c / v3 Agent RMON (Group 1, 2, 3 & 9) RMON alarm and event(CLI,web) SNMP multiple trap destinations IEEE 802.1AB-2005 Link Layer Discovery LLDP Cisco Discovery filtering - CDP sFlow Daylight Saving

Application



Ordering Information

Model Name	Description
GSW-3208MP	8 ports 10/100/1000Base-TX + 2 ports GbE SFP slot L2 Managed PoE Switch

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

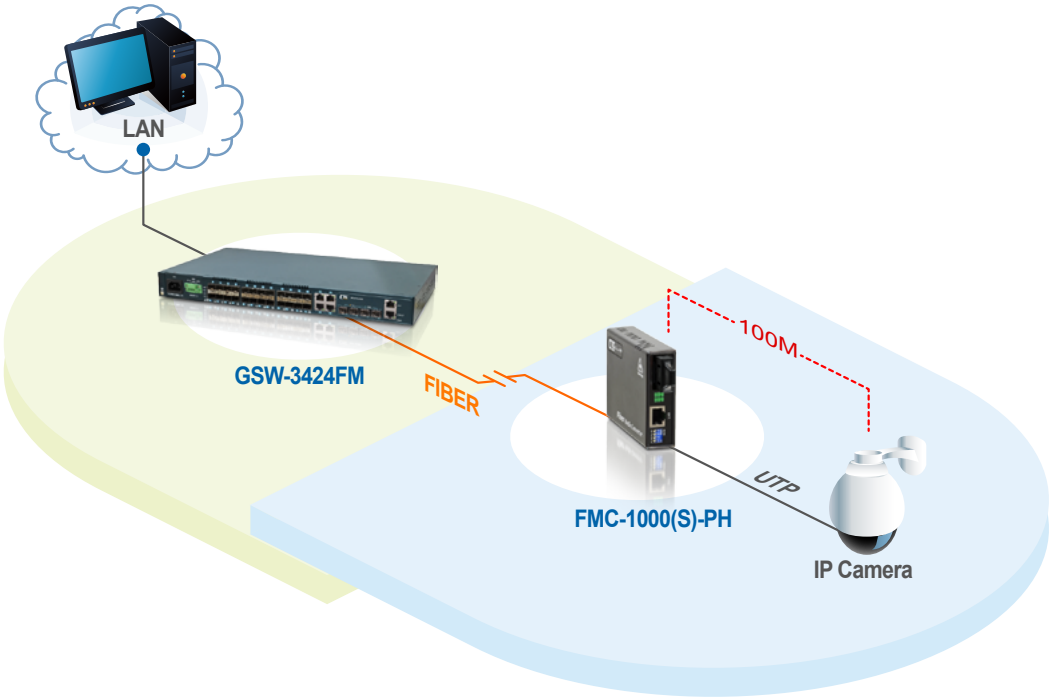
- Conversion between 10/100/1000Base-T and 1000Base-X Fiber cable interface
- Supports dual rate (100/1000) SFP for selectable Fast or Gigabit speed on fiber (FMC-1000S-PH)
- PoE output voltage upto 55VDC
- Supports IEEE802.3at/af PoE , output 30Watts Power Budget
- Supports LFPT (Link Fault Pass Through)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

Application



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

FMC – 1000S-PH- □□ – □□□□ (Wall-Mount Kits, Connect Type)

Example: FMC – 1000S-PH- WM – SC002


Wall-Mount Type


Non Wall-Mount Type

IFC-1000PSE
IFC-1000PSE/A

Gigabit Ethernet PoE PSE Media Converter

The IFC-1000PSE/A is a copper to fiber Gigabit Ethernet solution designed to make conversion between 10/100/1000Base-T to 1000Base-SX/LX with SFP LC connector. The IFC-1000PSE complies with IEEE802.3af Power Over Ethernet standard with external AC power adapter or internal AC power build-in. This PoE media converter is a Power Sourcing Equipment (PSE) which combines data received over a TP link with 48VDC power, providing power to IEEE802.3af powered device (PD) over the existing CAT5 UTP cable. Other features include Link fault Pass-Through (LFPT), Store and Forward Switching, auto or forced mode setting for copper Ethernet as well as auto laser shutdown.

Features

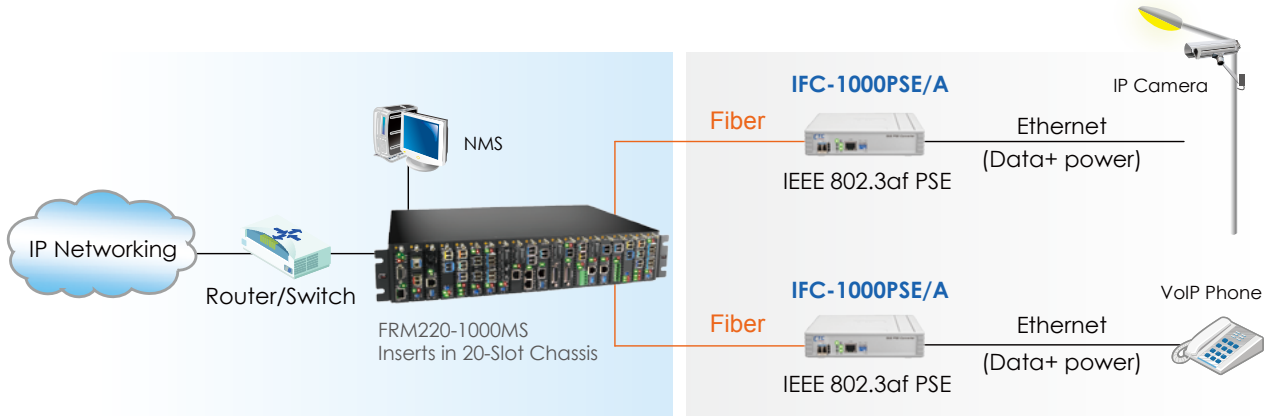
- 10/100/1000Base-T to 1000Base-SX/LX SFP
- IEEE 802.3af Compliant PSE (power sourcing equipment)
- Auto-negotiation or forced mode
- Auto MDI/MDIX
- Store and Forward Switching Mechanism
- Supports 4K MAC address
- Supports 256K Byte Packet Buffer
- Forward 1632 bytes (max.) packets
- Supports Link fault Pass-Through (LFPT) function

Specifications

Optical Interface	Connector	SFP LC
	Data rate	1250Mbps
	Duplex mode	Full duplex
	Fiber	MM 50/125μm, 62.5/125μm.
		SM 9/125μm
	Distance	MM 550m, 2km, SM 15/30/50/80/120km
		WDM 20/40/60km
	Wavelength	MM 1310nm, SM 1310,1550nm
		WDM 1310Tx/1550Rx (type A)
		1550Tx/1310Rx (type B)
Electrical Interface	Connector	RJ-45
	Data rate	10Mbps, 100Mbps, 1000Mbps
	Duplex mode	Half / Full duplex
	Cable	10Base-T Cat 3, 4, 5, UTP
		100Base-TX Cat 5, 5e or higher
		1000Base-T Cat 5, 5e or higher

PSE Output Power	Class 0: 15.4w Class 1: 4w Class 2: 7w Class 3: 15.4w
Standards	IEEE 802.3, 802.3u, 802.3ab, 802.3z, 802.3af,802.3x
Indications	LED (Power, FX-Link, FX Duplex, TX-SPD, TX-Duplex, TX-Link)
Power Input	100 ~ 240VAC
Power Consumption	< 5W (w/o PSE Output Power)
Dimensions	201 x 135 x 35mm (D x W x H)
Weight	0.58kg
Temperature	0 ~ 50°C (Operating), -10 ~ 70°C (Storage)
Humidity	10 ~ 90% non-condensing
Certification	CE, FCC, RoHS compliant
MTBF	75,000 hrs

Application



Ordering Information

Model Name	Description
IFC-1000PSE/A	GE PSE media converter with DC 48V in AC adapter
IFC-1000PSE-AC	GE PSE media converter with built-in AC power 100 ~240V

IFC – □□□□□□□ – □□ (Interface / Power Type)

Example: IFC – 1000PSE– AC

IFC-100PD

10/100Base-TX to 100Base-FX PoE PD Media Converter

The IFC-100PD is Power over Ethernet 10/100Base-TX to 100Base-FX non-managed PD(Power Device) Fiber converter, which give you the options to choose from the most popular fiber cabling connectors, ST, SC, FC. Both multi-mode and single mode converter models are available as well as BiDi which allows bi-directional transmissions using only a single fiber cable. With Power over Ethernet (PoE) feature, IFC-100PD takes power supply over Ethernet cable from PoE Ethernet Switch and may work without external power adapter. When auto-negotiation is selected, these units will automatically tailor themselves to convert both half-duplex and full-duplex signals, according to IEEE802.3u standards. LED indicators signal the power status of the converter, UTP port speed, Link, and duplex status, FX port Link and duplex status. The stand-alone converter may also be concentrated into either the FMC-CH08 or FMC-CH17 non-managed chassis.

Features

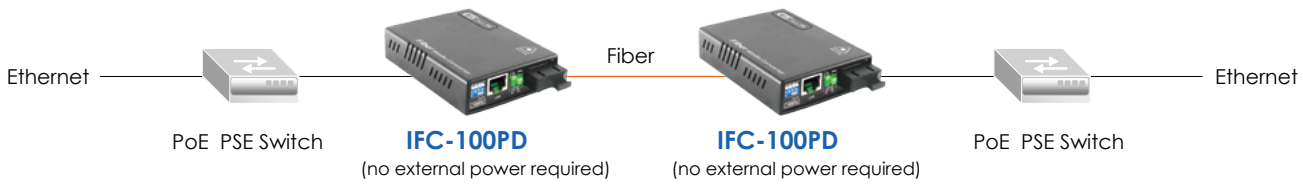
- 10/100Base-TX to 100Base-FX Converter
- Auto-Negotiation or forced mode
- Auto MDI/MDIX
- Forward 1600 bytes (Max.) packets
- Supports Q in Q double tagged frame transparent
- Supports IEEE 802.1Q Tag VLAN pass thru
- Supports flow control (Pause)
- Supports Link Fault Pass-Through (LFPT)
- Forward 9K jumbo packets in converter mode
- Supports IEEE802.3af Power over Ethernet

Specifications

Optical Interface	Connector	1x9 (SC, ST, FC)
	Data rate	125Mbps
	Duplex mode	Full duplex
	Fiber	MM 50/125μm, 62.5/125μm
		SM 9/125μm
	Distance	MM 2km, SM 15/30/50/80/120km
		WDM 20/40/60/80km
	Wavelength	WDM 1310Tx/1550Rx (type A)
		1550Tx/1310Rx (type B)
		1550Tx/1310Rx (type B)
Electrical Interface	Connector	RJ-45
	Data rate	10Mbps, 100Mpbs
	Duplex mode	Half / Full duplex
	Cable	10Base-T Cat.3, 4, 5, UTP,
		100Base-TX Cat.5, 5e or higher
		1000Base-T Cat 5, 5e or higher
	PD Input Power	48VDC

Standards	IEEE 802.3, IEEE 802.3u, IEEE 802.3af
Indications	LED (Power, FX Link, TX SPD, TX Link, TX Duplex, FEF)
Power Input	FMC: DC 12V In
Power Consumption	< 4W
Dimensions	108 x 74 x 23mm (D x W x H)
Weight	120g
Temperature	0 ~ 50°C (Operating), -10 ~ 70°C (Storage)
Humidity	10 ~ 90% non-condensing
Certification	CE, FCC, RoHS compliant
MTBF	65,000 hrs

Application



Ordering Information

Model Name	Description
IFC–100PD	10/100Base-TX to 100Base-FX PoE PD media converter
Connector Type	**Connectivity Distance**
SC, ST, FC	002: 2km 015: 15km 030: 30km 050: 50km 080: 80km 120:120km 20A: WDM 20km A type 20B: WDM 20km B type 40A: WDM 40km A type 40B: WDM 40km B type 60A: WDM 60km A type 60B: WDM 60km B type 80A: WDM 80km A type 80B: WDM 80km B type

Connector Type / Connectivity Distance

IFC – 100PD – □□□□□

Example: IFC – 100PD – SC002

INJ-G30

Gigabit Ethernet, IEEE802.3af/at High Power PoE Injector

This device consists of 1 PoE Injector ports. That can solve the limitation of the power outlet location and offer the system designer a flexible solution to locate the network device everywhere. The compact size and wall mounting was specifically designed for easy installation. It can be installed where space is limited; moreover, it provides smooth network migration and easy upgrade to network capacity.

Features

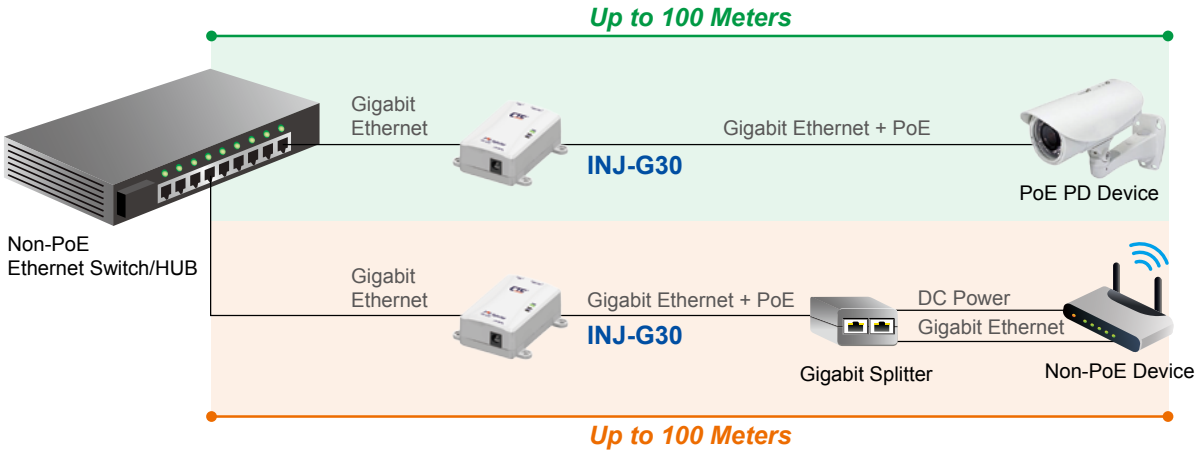
- 1 Port PoE Injector, 48V 30W output
- Compliane IEEE802.3af/at
- Providing 1 10/100/1000Mbps pass through data rate
- Wall Mountable
- Compliane with IEEE 802.3 10Base-T, IEEE 802.3u 100Base-TX and IEEE802.3ab 1000Base-T
- Safety & EMI Certificates: CE & FCC Class B Smart plug & play
- Compact Size

Specifications

Ethernet Standard	IEEE 802.3	10Base-T 10Mbit/s Ethernet
	IEEE 802.3u	100Base-TX, 100Base-FX, Fast Ethernet
	IEEE 802.3ab	1000Base-T Gbit/s Ethernet over twisted pair
Network Cable	IEEE 802.3af	Power over Ethernet (PoE)
	IEEE 802.3at	Power over Ethernet (PoE+)
Indications	1x RJ-45 for 10/100/1000Base-T data	
	1x RJ-45 for 10/100/1000Base-T data and PoE Power output	
Power Input	10Base-T Cat. 3, 4, 5e UTP/STP;	
	100/1000Base-T Cat. 5 UTP/STP	
Filtering/ Forwarding Rate	10/100/1000Mbps pass through data rate	
PoE Power output pin	RJ45 Pin 1,2(V+), Pin 3,6(V-)	

LED	System Power
External Power Supply	DC48V 0.75A Output (maximum) AC 100V~240VAC Input
PoE Power output	48V, 30W (maximum)
Operating Temperature	0 ~ 45°C
Storage Temperature	-20 ~ 85°C
Humidity	10 ~90% RH (Non-condensing)
Dimension	80 x 68 x 24mm (D x W x H)
Weight	138g
Installation mounting	Wall mount
Certificates	CE & FCC Class B

Application



Ordering Information

Model Name	Description
INJ-G30	1 Port Gigabit Ethernet, IEEE802.3af/at high power PoE+ Injector