

# MC-F-204EP

## Product Description

myconnect

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## 1. Overview

MC-F-204EP is specialized unmanaged POE switch designed for video surveillance and network project system, etc. It provides 4 x 100Mbps Ethernet ports and 1x 100Mbps fiber optical ports, support VLAN function, can effectively prevent whole system from broadcast storm so that make the data transfer safer.

This POE network switch can meet customers' general demands. POE network switch with POE function, designed for high-definition network cameras' internet access. It provides 4 100Mbps PoE Ethernet switches, complies with IEEE802.3af/at standards, and also simplifies wiring, avoids the troublesome of installing power socket for powered devices.

Typical applications please refer to following picture

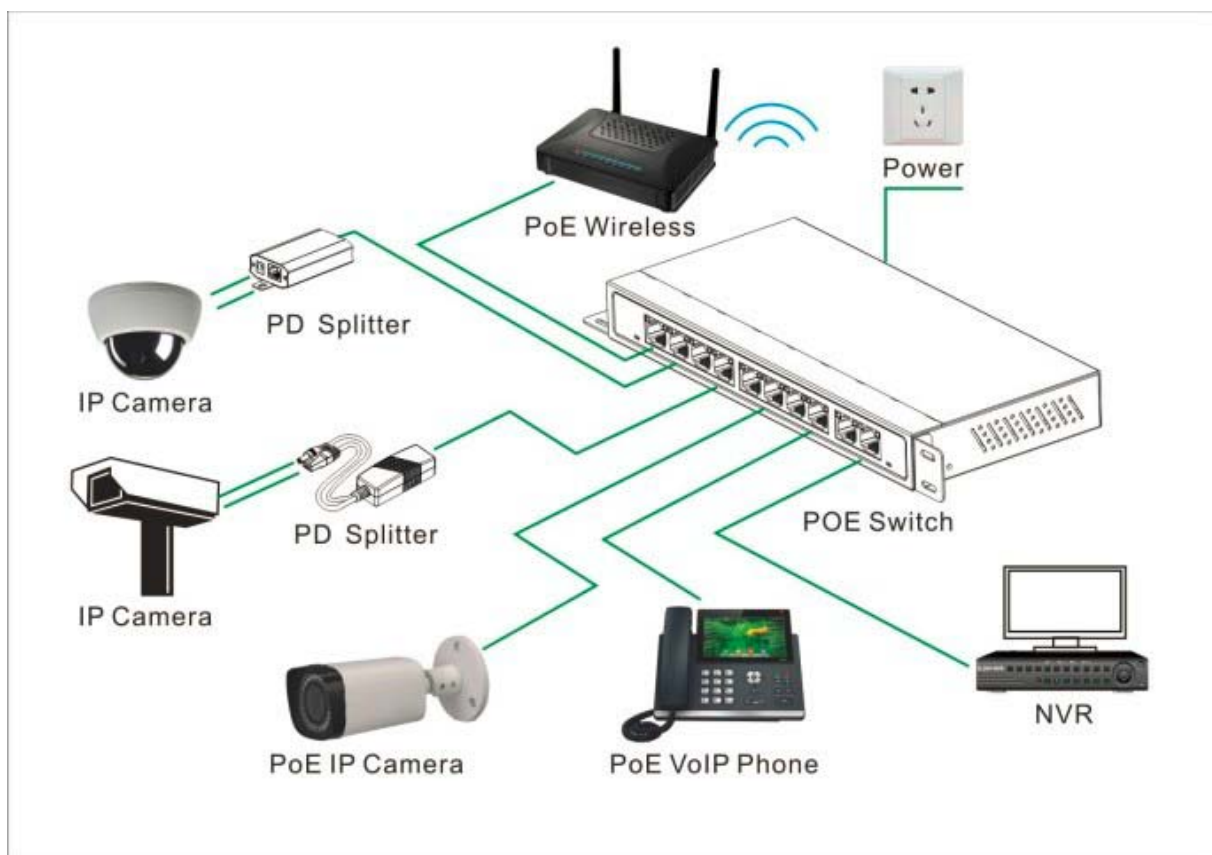


Figure 1-MC-F-204EP Application

## 2.Features

- Up-link Port : 1 x 100Mbps Fiber Optical Port
- Fast Ethernet Ports: 4 x 100Mbps
- Support End-Span method complies with IEEE802.3 af/at standards, can supply max 30W power which is possible to power high-power infrared cameras.
- Comply with IEEE802.3, IEEE802.3u, IEEE802.3az (uplink optical fiber port) and IEEE802.3af/at standards.
- Support IEEE802.3x full-duplex flow control
- Auto MDI/MDIX
- Support Port-based VLAN, prevent from broadcast storm so that make data conversion more efficient and safe.
- Restart function helps master IC reset wholly. Easy for users to solve network failure without swapping power supply; Easy to maintain system; Help monitoring pictures recover quickly.
- Various LED display functions can real-timely display the device's current working conditions, and help prompt facility and remove trouble easily.
- Excellent lightning protection, lightning capacity up to 4KV
- Easy to install and operate on walls or on the desktops

### 3.Product Picture



Figure 2-MC-F-204EP

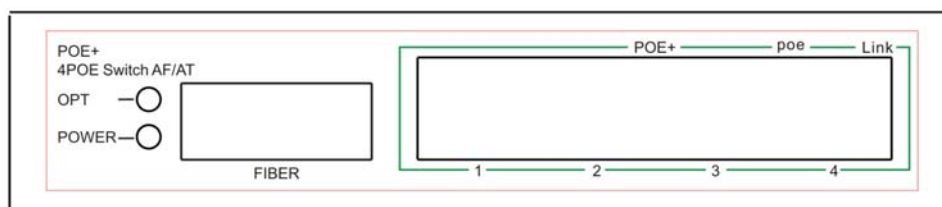


Figure 3-MC-F-204EP Front Panel

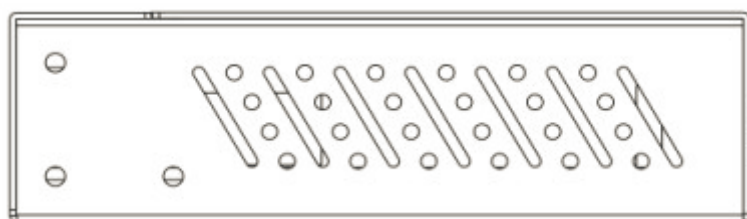


Figure 4-MC-F-204EP Side View

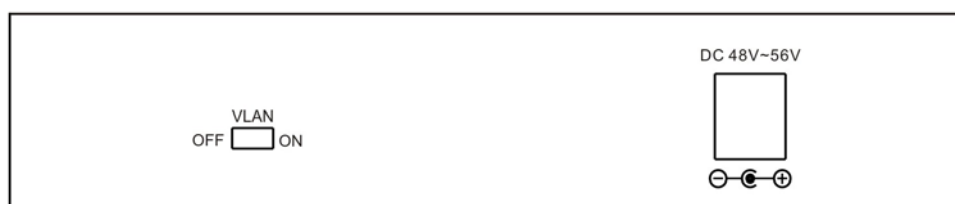


Figure 5-MC-F-204EP Rear Panel

## 4. Technical Specifications

Item		Description
<b>Model</b>		MC-F-204EP
<b>Power Supply</b>	Power Supply Mode	Power Adaptor
	Voltage Range	DC48-56V
	Power Consumption	The device <5W POE power supply <60W
<b>Network Port Parameter</b>	Network Ports	1-4 Ethernet Port: 10/100Mbps Uplink optical fiber port: SC/FC/ST
	Transmission Distance	1-4 Ethernet Port: 100m Mandatory 10 Mbps reach up to 250m Uplink optical fiber port: single mode twin fiber 20km
	Transmission Media	1-4 Ethernet Port: Cat5e/6 standard UTP cable, Uplink Port: Optical Fiber
	POE Agreement	IEEE802.3 af/at standards
	PoE Power Supply Mode	End-span method
	PoE Power Supply Wattage	Each port ≤30W, Whole device <60W
<b>Network Switch Specification</b>	Network Standard	IEEE802.3 10BASE-T、IEEE802.3u 100BASE-Tx/Fx, IEEE802.3az ( Uplink optical fiber port )
	Swap Mode	Store-and- forward
	Data-Caching Mechanism	448K
	MAC Address List	1K
<b>Status Indicators</b>	Power Indicator Light	One power light ( Green )
	Optical Fiber Port Indicator	One fiber link indication light ( green), Green light keeps on when the fiber port is well connected; Blinking when transceiver data
	PoE Indicator	4 PoE indicator light ( yellow )
	PoE Network Port LED	1-4 port ( green light on RJ45 jack) Blinking when transceiver data

<b>Switch</b>	VLAN Switch	One, slide switch to “ON” + press restart button, VLAN function enabled
<b>Protection Level</b>	Surge Immunity	Level 3, executive standard: IEC61000-4-5
	Electrostatic Protection	1a touch electric discharge: level 3 1a Air discharge: level 3 Executive standard: IEC61000-4-2
<b>Operating Environment</b>	Working Temperature	0℃-55℃
	Storage Temperature	-40℃-70℃
	Humidity (non-congeal)	0~95%
<b>Mechanical Attributes</b>	Dimensions (L*W*H)	128mmx77.75mmx27.35mm
	Color	Black
	Weight	425g
<b>Reliability</b>	Mean time between failures (MTBF)	>50000h

Note:

If any changes with product specification, forgive without prior notice.

As transmission distance has certain relation with the cable, so you are suggested to use standard cat5e/6 cable for longest distance needed.

## 5.V-LAN Function

### 5.1. Introduction

When V-LAN function is opened, the LAN port can't make data conversion but can only communicate via uplink port. The V-LAN workstation is built separately between every network port and UP-LINK port.

In the same V-LAN workstation, no matter which actual PoE switch being connected, the signal transmission are separately isolated from each other which seems they are on the different switches. The broadcast in the same V-LAN can only be received by the members but can't be transmitted into other V-LAN, which can greatly control unnecessary broadcast storm. What's more, different V-LAN can't even communicate with each other when there is no routing, which increases the safe degree among different department in the enterprise.

### 5.2. Configuration

Toggle the V-LAN button on the back of the switch to ON state, V-LAN indicator lights, then press the reset button to restart the switch, in this way V-LAN functions.

Note:

Please press reset button or repower the device when turn on V-LAN, only in this way the switch can enter corresponding mode.



## 6. Packing List

Before installation, please check the following equipment and accessories, if there are any missing, please contact with your supplier.

- One set of MC-F-204EP
- One power adapter
- One user manual
- One warranty card

## 7. Installation Procedure

- Before installation, please turn off the power of all signal sources and the monitor in case of the damage to transmission device
- Using network cables to connect with Ethernet ports of IP cameras and POE ports of MC-E-2 series unmanaged POE switch
- It using UP-LINK port to connect NVR or computer devices.
- Check weather installation is correct and the device undamaged. Before power on MC-E-2 series unmanaged POE switch, make sure that all connections are reliable
- Confirm all network devices are powered on and can work normally.

## 8. Troubleshooting

When the device encountered with troubles, it can be solved by the methods below:

- 1) Make sure the device is installed correctly referring to the requirements;
- 2) Make sure RJ45 cable is good contacted without open circuit; the cable design complies with EIA/TIA568A or 568B international standards.
- 3) Each PoE port can provides max 30W to switch and the total power is less than the maximum power provided by the device. So please don't connect with the PoE device which is more than 30W.
- 4) Press reset button to check if the device can work properly.
- 5) Replace the trouble device with a normal working device to check if the device is damaged.
- 6) If all the above methods still don't work, please contact with manufacturer directly.