



**MRE**<sup>®</sup>  
Pioneering Power Supplies



# User Manual

**Model No: MRE18d**

**8 Port 10/100Mbps+2 Gigabit Uplink RJ45 Port**

**PoE Switch**



## Product Overview:

MRE18d is a 8 port Fast Ethernet PoE Switch with 2 gigabit uplink RJ45 Port, it has three working modes, Standard Mode, Extend Mode, VLAN Mode. In Standard Mode, all ports support freely communicating, applicable for common data transmission environment. In Extend Mode, ports 1-8 support 250 meters, applicable for long range surveillance and power supply. In VLAN Mode, ports 1-4 are isolated from each other, support suppressing network storms and improving network performance.

MRE18d supports the standard IEEE 802.3 af/at protocol, which can automatically detect and identify the PD devices and supply power, therefore, Do not worry about PoE or non-PoE devices that can damage private standards.

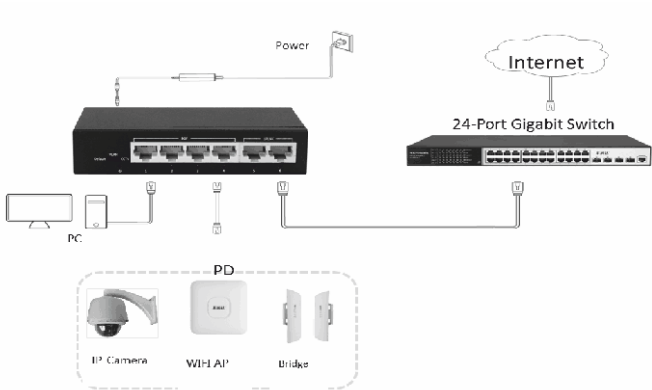
## Key Features:

- Support One key Extend, ports 1-8 support 250 meters (Cat.5 or above)
- Support One key VLAN, ports 1-4 isolation for network security
- Support standard IEEE 802.3 af/at protocol, automatically detect and identify the PD devices comply with IEEE 802.3 af/at protocol and supply power.
- Support upward port auto MDI/MDIX.
- Adopted storage forward switching system.
- Smart supply power and minimum consumption, guarantee PD requirement.
- Power supply circuit protection function and protection back-end device safety
- Automatically provide the adaptive device
- Fanless design realize saving energy and environment protection
- Compact size design
- Support saving power function when port dis-connection
- All Ports support Wire-speed forwarding capability
- Plug and play, easy using without configuration.

## Specification:

Network Port	· 8 10/100Mbps PoE RJ45 port (port 1 ~ port 8)
	· 2 10/100/1000Mbps Non-PoE RJ45 port (port 9 ~ port 10)
Transfer Rate	· 100Mbps full Duplex, 10 or 100Mbps Half Duplex
	· Network interface: 10BASE-T or 100BASE-TX Ethernet RJ-45 port
Performance	· Bandwidth: 5.6Gbps (no block)
	· Frames filter and transfer rate:
	10M port maximum 14,800pps
	100M port maximum 148,800pps
Network protocol and standard	· IEEE 802.3i 10BASE-T
	· IEEE 802.3u 100BASE-TX
	· IEEE 802.3x Flow Control
	· IEEE 802.3af/at Power over Ethernet
Power pin	1/2(+), 3/6(-);
LEDs indicator	· Power
	· LINK/ACT, PoE
Power	· Total power: 96W
	· Single port maximum output power: 30W
Dimensions	· Size (LxWxH) : 184mm x 94mm x 27 mm
	· Weight: 1.35kg
Environment	· Operating Temperature : 0°~45°C (32°~113°F)
	· Storage Temperature: -20°C~90°C (-4°~194°F)
	· Working Humidity: 10%~90% (Non-condensing)
	· Storage Temperature : 5%~90% (Non-condensing)
EMC	· CE Class B
	· FCC Part 15, Class B
	· VCCI Class B
	· C-Tick
Certifications	· CE/FCC/RoHS
Warranty	· 1 year

## Connection diagram



## Indicator Status:

Indicator	Indicator Description	Normal Status	Abnormal Status
Power light	Power Indicator	Green ok	If red is not ok, Please check external socket power supply if it is normal adapter power connection if is correct or not etc..
POE Indicator	PoE Power Indicator	Yellow ok	If red is not ok, please check the corresponding RJ45 port if connected with network devices, cable connected if is correct cable if is accord with standard(cable 5 or more, the transmission distance is max 100meters)、damaged、network devices destroyed or not etc..
LINK/ACT Indicator	PD devices connected indication	Green ok	If the light is not ok. Please check the corresponding RJ45 port if connected network devices, POE power normal, cable connected correctly, cable damaged, network devices destroyed or not etc..

## Application Suggestion

- 1) All operation should be provided only by a qualified service technician.
- 2) Make sure the PDs you connected to the Switch are compliant with IEEE 802.3af/at.
- 3) Make sure the power is off before unplugging the power adapter.
- 4) Makes sure all PoE PDs power consumption is less than total power
- 5) Please avoid any heavy thing placed on the Switch.
- 6) Do not use this product near water, for example, in a wet basement or near a swimming pool.
- 7) Avoid using this product during an electrical storm. There may be a remote risk of electric shock from lightning.
- 8) For outdoor use, the Switch itself should be housed inside a protective enclosure.
- 9) Cutting power during a firmware upgrade can damage your device.
- 10) Only use attachments/accessories specified by the manufacturer.
- 11) Opening the switch or tampering with the warranty sticker can void your warranty.