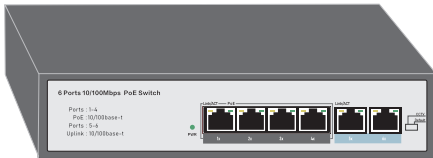# 4/8/16 Port PoE Switch
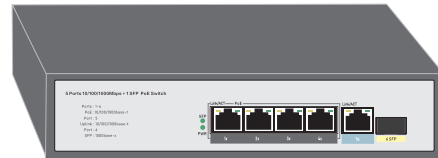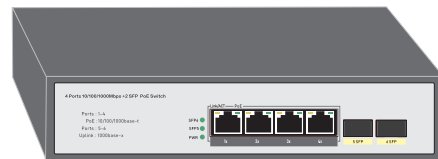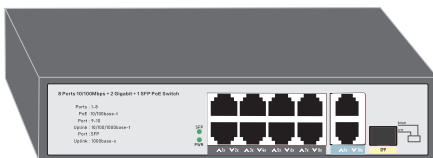
User's Manual V3

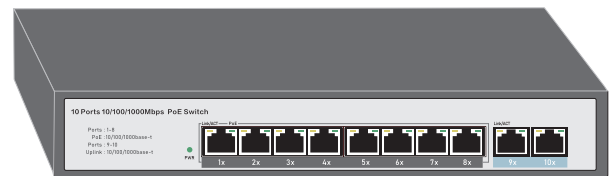4 +2 10/100M PoE Switch

5 + 1 SFP Gigabit PoE Switch

8 10/100M +2 Gigabit PoE Switch

4 + 2 SFP Gigabit PoE Switch

8 10/100M +2 Gigabit +1SFP PoE Switch

8 + 2 Gigabit PoE Switch

16 10/100M +2 Gigabit +1SFP PoE Switch

Important Safeguards & Warning

Attention:
Please read the following safeguards and warnings carefully before using the product in order to avoid demages and losses

Note:
Do not expose the device to soot,high humidity or dust.Doing so may cause fire or electric shock.
Do not install the device in direct sunlight as it may cause overheating and failure.
Installation of the units should be via the compatible rack mount or securely on a flat surface.
Do not place the device on carpet to or around the unit, Doing so may cause overheating.failure or fire.
Do not place stack or place objects on the unit
This unit contains o user serviceable parts,Servicing should only be performed by approved technicians.

Warning:
Do not use a power supply other than the provided manufacture power supply.Failure to do so may cause unit failure and or demage.

Special Announcements:
This manual is reference only.
All the designs and software here are subject to change without prior written notice

Product Overview

Features:

Introduction:

This 4/8/16 ports PoE switch provides power and data from a single point, using Power over Ethernet(PoE) over a single Cat5 cable. It can be used for any 10/100/1000Mbps link PoE port with gigabit Uplink and supply industry-standard IEEE 802.3af /at power. Advanced auto-sensing algorithm gives power to 802.3af/at end devices, It also offer gigabit SFP Uplink(Optional) which can be the most economic solution for long distance data transmission.

In addition,the PoE switch automatically determines PoE requirements, speed, duplex. Easy to operate and reliable. It also provides a switch button to extend the Ethernet transmission distance of 4/8/16 POE Ethernet ports up to 250m which make the installation more flexible.

This PoE switch is ideal for powering PoE devices such as IP cameras,WLAN access points, IP phones, office access control systems, and other PD devices and offers a line of high quality products that provide a total solution for ethernet application in different environments.

Common features:

Two-layer commercial PoE switch.
Confirm to IEEE802.3i 、 IEEE802.3u、IEEE802.ab、IEEE802.z and IEEE802.3X standards
MAC auto study and aging,MAC address list capacity is 4K
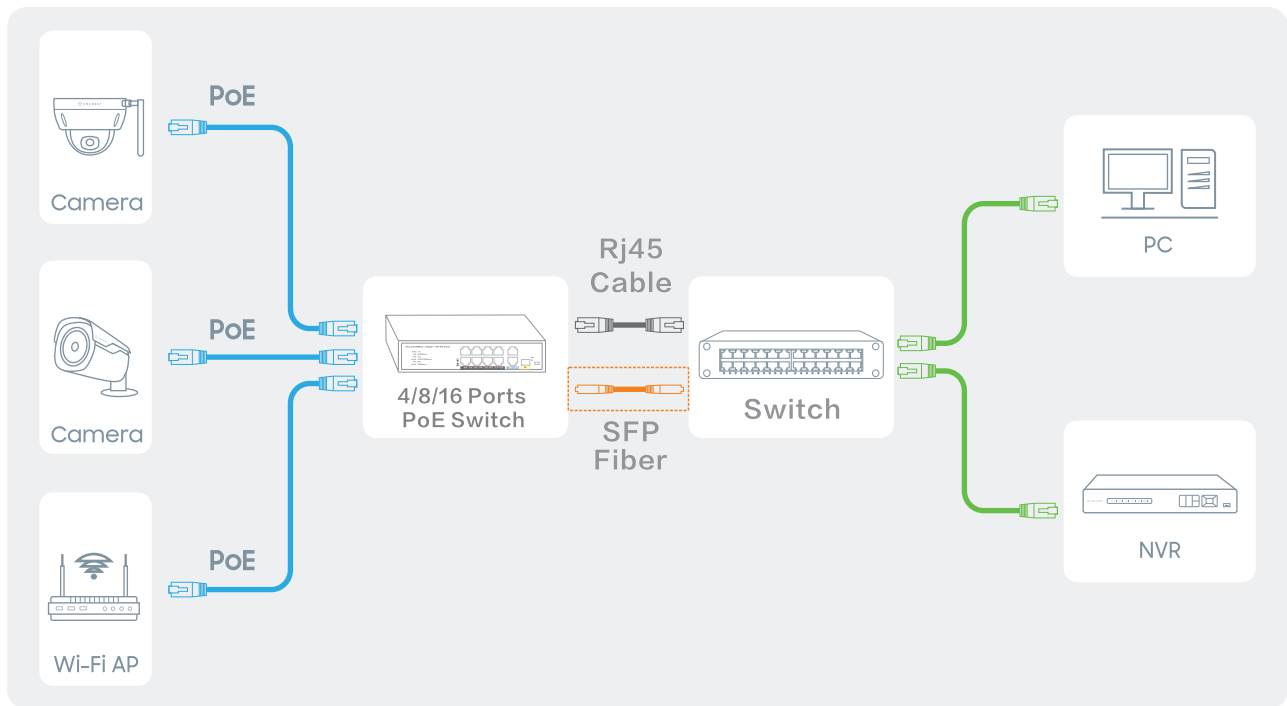All ports Self adapt MDI/MDIX mode
All the 10/100 and 10/100/1000Mbps self adaptive RJ45 PoE ports support IEEE802.3af and IEEE802.3at standards
Commercial Wide temperature design
Support 6KV ESD protection on all Ports

Typical Application:

The typical application of the device is show as below

Introduction:

Please check and confirm the following notes before the installation.
1.If the PoE port meets the power requirements of the connecting devices.
2.If the PoE standard requirements and power supply matches with the connecting deivces
3.If the output power of the matched power adaptors is compatible with the specification of the adaptors.

Then Please follow the following steps to install the PoE switch.
1.Put the PoE switch on the surface of a large and stable table,
2.Connect the power outlets through the power cable
3.Connect the network devices to PoE switch port through the RJ45 cable

Caution:
1.Please do not put heavy products on the PoE switch and ensure good ventilation environments for the PoE switch
2.Please cut off the power first before plugging the power adaptors
3.Indoor use only.

Appendix 1
Technical specification

Model	4 +2 10/100M PoE Switch	8 10/100M +2 Gigabit PoE Switch
Hardware Specifications		
Connector	6 10/100BASE-T RJ45	8 10/100BASE-T RJ45 2 10/100/1000BASE-T RJ45
PoE Port	4 10/100Mbps PSE port	8 10/100Mbps PSE port
LED indicators	Power Indicator: PWR(green).Network Indicator: Link(yellow) PoE Working Indicator: PoE(green)	
Switch Architecture	Store and Forward	
Backplane bandwidth	1.6Gbps	7.6Gbps
Packet forwarding rate	1.25Mpps	4.2Mpps
MAC address	2k	4k
Power requirement	AC100-240V 50/60Hz	
ESD Protection	6KV ESD	
Dimension(W×D×H)	202mm x 104mm x 44.5mm	202mm x 104mm x 44.5mm
Weight	0.72Kg	0.86Kg
Power over Ethernet (PoE) Specifications		
Network standard	IEEE802.3i 10 BASE-T ； IEEE802.3u 100 BASE-TX IEEE802.3ab/z 1000 BASE-TX ；IEEE802.3x Flow Control	
PoE Standard	IEEE 802.3af Power over Ethernet/PSE IEEE 802.3at Power over Ethernet Plus/PSE	
PoE Supply Type	1/2(+), 3/6(-) End-span	
PoE Power Output	Per Port 52V DC, 300mA. max. 15.4 watts (IEEE 802.3af) Per Port 52V DC, 600mA. max. 30 watts (IEEE 802.3at)	
PoE Power budget	65W	120W
Environment		
Environment specification	Operating temperature: -20℃~55℃ ，operating humidity: 5％~95％ Storage temperature: -40℃~75℃ ，storge humidity:5％~95％	
Safety	FCC Part15 Class A,CE.RoHs	

Appendix 2
Technical specification

Model	8 10/100M +2 Gigabit +1SFP PoE Switch	16 10/100M +2 Gigabit +1SFP PoE Switch
Hardware Specifications		
Connector	8 10/100BASE-T RJ45 2 10/100/1000BASE-T RJ45 1 1000 Base-X SFP Slots	16 10/100BASE-T RJ45 2 10/100/1000BASE-T RJ45 1 1000 Base-X SFP Slots
PoE Port	8 10/100Mbps PSE port	16 10/100Mbps PSE port
LED indicators	Power Indicator: PWR(green).Network Indicator: Link(yellow) PoE Working Indicator: PoE(green).SFP Indicator: Link(yellow)	
Switch Architecture	Store and Forward	
Backplane bandwidth	7.6Gbps	9.2Gbps
Packet forwarding rate	5.65Mpps	6.85Mpps
MAC address	4k	4k
Power requirement	AC100-240V 50/60Hz	
ESD Protection	6KV ESD	
Dimension(W×D×H)	202mm x 104mm x 44.5mm	310mm x 180mm x 44.5mm
Weight	0.86Kg	2Kg
Power over Ethernet (PoE) Specifications		
Network standard	IEEE802.3i 10 BASE-T；IEEE802.3u 100 BASE-TX IEEE802.3ab/z 1000 BASE-TX；IEEE802.3x Flow Control	
PoE Standard	IEEE 802.3af Power over Ethernet/PSE IEEE 802.3at Power over Ethernet Plus/PSE	
PoE Supply Type	1/2(+), 3/6(-) End-span	
PoE Power Output	Per Port 52V DC, 300mA. max. 15.4 watts (IEEE 802.3af) Per Port 52V DC, 600mA. max. 30 watts (IEEE 802.3at)	
PoE Power budget	120W	200W
Environment		
Environment specification	Operating temperature: -20℃~55℃，operating humidity: 5%~95% Storage temperature: -40℃~75℃，storge humidity:5%~95%	
Safety	FCC Part15 Class A,CE.RoHs	

Appendix 3
Technical specification

Model	5 + 1 SFP Gigabit PoE Switch	4 + 2 SFP Gigabit PoE Switch
Hardware Specifications		
Connector	5 10/100/1000BASE-T RJ45 1 1000 Base-X SFP Slots	4 10/100/1000BASE-T RJ45 2 1000 Base-X SFP Slots
PoE Port	4 10/100/1000Mbps PSE port	
LED indicators	Power Indicator: PWR(green).Network Indicator: Link(yellow) PoE Working Indicator: PoE(green).SFP Indicator: Link(yellow)	
Switch Architecture	Store and Forward	
Backplane bandwidth	12Gbps	
Packet forwarding rate	8.93Mpps	
MAC address	8k	
Power requirement	AC100-240V 50/60Hz	
ESD Protection	6KV ESD	
Dimension(W×D×H)	202mm x 104mm x 44.5mm	
Weight	0.72Kg	
Power over Ethernet (PoE) Specifications		
Network standard	IEEE802.3i 10 BASE-T ； IEEE802.3u 100 BASE-TX IEEE802.3ab/z 1000 BASE-TX ； IEEE802.3x Flow Control	
PoE Standard	IEEE 802.3af Power over Ethernet/PSE IEEE 802.3at Power over Ethernet Plus/PSE	
PoE Supply Type	1/2(+), 3/6(-) End-span	
PoE Power Output	Per Port 52V DC, 300mA. max. 15.4 watts (IEEE 802.3af) Per Port 52V DC, 600mA. max. 30 watts (IEEE 802.3at)	
PoE Power budget	65W	
Environment		
Environment specification	Operating temperature: -20℃~55℃ ，operating humidity: 5%~95% Storage temperature: -40℃~75℃ ，storge humidity:5%~95%	
Safety	FCC Part15 Class A,CE.RoHs	

Appendix 4
Technical specification

Model	8 + 2 Gigabit PoE Switch
Hardware Specifications	
Connector	10 10/100/1000BASE-T RJ45
PoE Port	8 10/100/1000Mbps PSE port
LED indicators	Power Indicator: PWR(green).Network Indicator: Link(yellow) PoE Working Indicator: PoE(green)
Switch Architecture	Store and Forward
Backplane bandwidth	20Gbps
Packet forwarding rate	14.88Mpps
MAC address	8k
Power requirement	AC100-240V 50/60Hz
ESD Protection	6KV ESD
Dimension(W×D×H)	270mm x 180mm x 44.5mm
Weight	1.4Kg
Power over Ethernet (PoE) Specifications	
Network standard	IEEE802.3i 10 BASE-T；IEEE802.3u 100 BASE-TX IEEE802.3ab/z 1000 BASE-TX；IEEE802.3x Flow Control
PoE Standard	IEEE 802.3af Power over Ethernet/PSE IEEE 802.3at Power over Ethernet Plus/PSE
PoE Supply Type	1/2(+), 3/6(-) End-span
PoE Power Output	Per Port 52V DC, 300mA. max. 15.4 watts (IEEE 802.3af) Per Port 52V DC, 600mA. max. 30 watts (IEEE 802.3at)
PoE Power budget	120W
Environment	
Environment specification	Operating temperature: -20℃~55℃，operating humidity: 5％~95％ Storage temperature: -40℃~75℃，storge humidity:5％~95％
Safety	FCC Part15 Class A,CE.RoHs