

LPOESW4

LPOESW8

LPOESW16E



User Manual

LPOESW4, LPOESW8, LPOESW16E



Product Overview:

Liberty Unmanaged Gigabit PoE Switches are offered in 4, 8 and 16ch models, provide up to 30W PoE power per port and include RJ45 and SFP uplink ports.

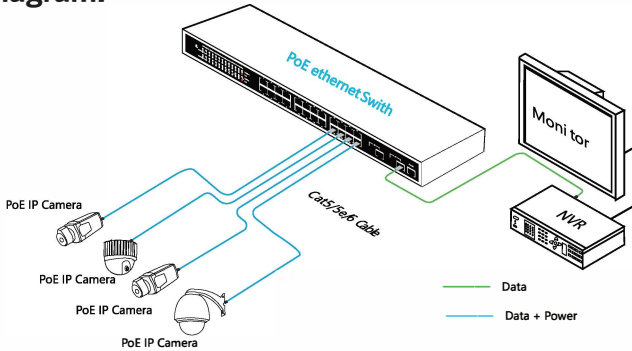
Product Features:

- IEEE802.3, IEEE802.3 u, and IEEE802.3ab Standard.
- All POE ports are 10/100/1000M adaptive ports. RJ-45+SFP Uplink ports (LPOESW4, LPOESW8) RJ-45/SFP Combo ports (LPOESW16E)
- All models offer V-LAN feature; PoE Ports communicate only with Uplink ports
- Support (2 ~ 8K) MAC address.
- The standard series supports IEEE802.3AF/AT mode.
- Support switch speed limit and port isolation.
- All ports support 2KV lightning protection.
- Wire speed forwarding, intelligent identification.
- All ports support IEEE 802.3X half duplex flow control and full duplex back pressure mode.
- Non-blocking switching architecture, full speed forward and maximum throughput filter packets.
- Support MAC address learning, automatic adjustment of transmission mode and transmission rate.
- LED indicators for power, link and activity identify device status and helpful for troubleshooting.
- Warranty: The manufacturer warrants this product to be free from defects in workmanship and materials, under normal use and conditions, for a period of three (3) years from the original invoice date.

Please follow the below installation steps:

1. Please turn off power to connected devices before installation. Installation with connected devices powered On can damage transmission equipment.
2. Use Cat5E/Cat6 cable to connect POE devices to POE ports on the switch.
3. Use a Cat5e/CAT6 network cable to Uplink port and NVR or Computer.
4. Check connected equipment is installed correctly and in good condition.
5. Connect POE Switch to AC power using the supplied 3-prong power cord or External power supply & AC Cord.
6. Check POE devices connected to the POE Switch are receiving power and working properly

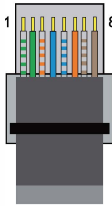
Network Diagram:



Supported Cable Standards:

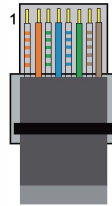
Cable should conform with EIA/TIA 568A or 568B Standards.

Pin	Color
1	White/Green
2	Green
3	White/Orange
4	Blue
5	White/Blue
6	Orange
7	White/Brown
8	Brown



EIA/TIA 568A

Pin	Color
1	White/Orange
2	Orange
3	White/Green
4	Blue
5	White/Blue
6	Green
7	White/Brown
8	Brown



EIA/TIA 568B

⚠ Notice:

If choosing EIA/TIA 568A, both ends of cable should be 568A, If choosing EIA/TIA 568B, both ends of cable should be 568B.

Transmission distances are directly related to the Cable used. Recommend using standard Cat5E/CAT6 or higher quality cable for best performance.

Trouble Shooting:

Please check the following:

- Make sure the equipment is installed according to the manufactures installation guide.
- Confirm RJ45 cable order meets EIA/TIA 568A or 568B standard.
- Every PoE port can provide PoE equipment maximum power less than 30W, please do not connect the PoE equipment with power over 30W.
- Contact Liberty Tech Support at 855-388-7422 if trouble still exists.



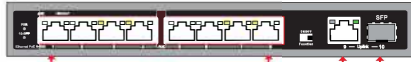
Specification:

Features	LPOESW4	LPOESW8	LPOESW16E
PoE Port Number	4x 10/100/1000 Mbps	8x 10/100/1000 Mbps	16x 10/100/1000 Mbps
Uplink Ports	1x RJ-45 10/100/1000	Mbps+ 1x Gigabit SFP	2x Gigabit Combo RJ-45/SFP
Ethernet Standards	IEEE 802.3 / 802.3u / 802.3af / 802.3at	IEEE 802.3x / 802.3 / 802.3u / 802.3ab / 802.3af.at	IEEE 802.3 / 802.3i / 802.3u / 802.3ab / 802.3z / 802.3af.at
POE Power Pin	V+(RJ45 Pin 1,2), V-(RJ45 Pin 3,6)		
Maximum Port Power	30W per port		
PoE Power Budget	60W	120W	250W
Extend Mode (250M)	N/A	N/A	Yes - Switch Selectable
Extend Mode Bandwidth	N/A	N/A	Yes - Limited to 10Mbps per PoE Port
V-Lan Mode	Yes - Switch Selectable (POE ports can only communicate with uplink ports when V-LAN mode is activated)		
LED Indicators	LINK / ACT	On/Green	
		Blinks	
		Off	
	POE	On/Green	
		Off	
Certifications	CE/FCC		CE/FCC/UL
Operating Temp	0° ~ 40°C / 32° ~ 104°F		
Power Supply	External DC 48V, 1.35A	External DC 52V, 2.3A	Internal AC100~240V
Max Power Consumption (AC120V)	2.4 W (no power device connected)	3.1 W (no power device connected)	15.2 W (no power device connected)
	75 W (with 65 W power devices connected)	146 W (with 125 W power devices connected)	300W (with 260 W power devices connected)
Environment	Indoor Only		

Front Panels & Connections:



POE Ethernet Port Gigabit Up-link Ethernet Port



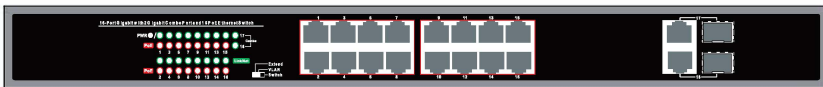
Gigabit POE Ethernet Port Uplink Gigabit SFP
Up-link Gigabit POE Ethernet Port



DC Power Input Port



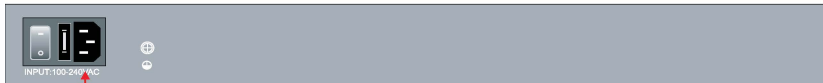
DC Power Input Port



Used to switch between different working modes

Gigabit POE Ethernet Port

Gigabit Combo



16 Channel Power Input Port