

## □ POE304-524 User Manual □



## PoE Switch Range

- Gigabit Speeds □ High Load Capacity
- Virtual LAN (VLAN) □ Multiple Uplinks

# Introduction

The Scatterbox range of PoE switches are great for distributing IP camera signals across a network.

A PoE switch is a network switch which has power over Ethernet built-in. The PoE switch will detect whether the load device is PoE compatible and provide PoE power automatically and network connection.

The units add extra flexibility to a network infrastructure thanks to 100 metre run capabilities both in and out of them.

## User Information

- The PoE Switch must be installed in a clean, dry environment where it will not be exposed to high temperatures, moisture or excessive dust.
- Do not touch the PoE Switch or any of its connections with wet hands.
- Ensure the power is switched off if the PoE Switch is not in use for a long period of time.
- There are no user serviceable parts in the PoE Switch and opening or attempting to repair the product will void the warranty.
- Only use the PSU originally supplied with the product.
- Do not install or use the device if the power cable is damaged.



# Contents & Accessories

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## Accessories Included

To make the installation as easy as possible our PoE switches is supplied with a power lead and the larger units include mounting brackets.



### Power Lead

So that the PoE switch is ready to use right out of the box we supply a 240V AC IEC C13 power lead.



### Mounting Brackets

The POE516 and POE524 are supplied with 19" rack mount brackets for easy mounting into a standard 19" rack mount cabinet.

# PoE Switch Models



## POE304

4 RJ45 Down links	10 / 100Mbps
2 RJ45 Up links	10 / 100Mbps



## POE308

8 RJ45 Down links	10 / 100Mbps
2 RJ45 Up links	10 / 100Mbps



## POE504

4 RJ45 Down links	10 / 100 / 1000Mbps
1 RJ45 Up links	10 / 100 / 1000Mbps
1 SFP Up links	1000Mbps



## POE508

8 RJ45 Down links	10 / 100 / 1000Mbps
2 RJ45 Up links	10 / 100 / 1000Mbps



## POE516

16 RJ45 Down links	10 / 100 / 1000Mbps
2 RJ45 Up links	10 / 100 / 1000Mbps
2 SFP Up links	1000Mbps



## POE524

24 RJ45 Down links	10 / 100 / 1000Mbps
2 RJ45 Up links	10 / 100 / 1000Mbps
2 SFP Up links	1000Mbps

# Setup Options

The Switches have different uses and setup options. Including providing power to PoE Cameras, and providing network access to devices like computers.

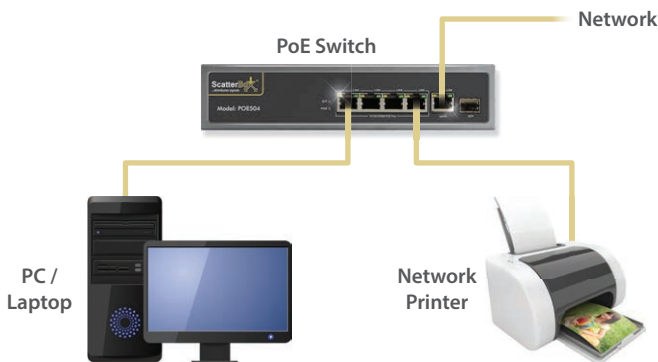
## Option 1

Power IP Cameras using PoE, and then these cameras can then connect to the relevant network video recorder or to a network infrastructure. If you want to power the IP Cameras using the PoE switch then connect the IP Cameras using CAT5e/CAT6 Ethernet Cable, for longer distances we recommend using high quality cable, with solid copper cores.



## Option 2








Provide network infrastructure to PoE and non-PoE Devices, like computers, and other Network devices.



*Note: Not all possible options are shown here as PoE switches have many different configurations and applications.*

# Features

## LED Status Indicators

LED	Condition	Status
<b>Power</b> <i>(Red or Green depending on model)</i>	 On	The switch is receiving power
	 Off	The switch is not receiving power
<b>LINK/ACT</b>	 On	The port is connected
	 Off	No connection to the port
	 Flashing	The port is transmitting or receiving data
<b>PoE</b> <i>(Only present on some models)</i>	 On	The port is linked and providing power to a device
	 Off	The is not providing power to a device



### SFP

A small transceiver that plugs into the **SFP** port of a network switch and connects to Fibre Channel and Gigabit Ethernet (GbE) optical fibre cables at the other end.



### VLAN

An additional feature is the **VLAN** option. This allows separation between ports. So if you set VLAN on, ports on the different blocks won't be able to see each other. Note that the UPLINK does see all ports so the separation is only between ports.

## Rack Mounting

The larger 20 port POE516 and the 28 port POE524 are supplied with rack mount brackets. These brackets attach to the side of the PoE switch allow you to mount it into a standard 19" rack mount cabinet.



# Trouble Shooting

The table below describes common problems you may encounter when using a ScatterBox PoE switch along with the most common solutions for rectifying the problem.

Problem	Possible Cause	Solution
No Power light on Switch	Power to the device	Check power to device from external source. Check that the power lead (IEC lead) is plugged in.
	Loose connection	Check that the power lead (IEC lead) is plugged in.
Network light not flashing	Poor quality cable or termination	Check the Ethernet cabling to your device is of good quality and is terminated correctly. See below for standard configuration.
No PoE on connected device	Poor quality cable or termination	Check the Ethernet cabling to your device is of good quality and is terminated correctly.
	Total power consumption exceeded	Check the load devices are not above the total power consumption of the switch.
	Cable length	Check the distance of Ethernet cable to your device. Ethernet cables have a 100m maximum length.
Slow flashing LEDs, No Network or PoE on load devices	Faulty cable or device	Turn the power off to the switch & unplug the load devices (Check Ethernet cabling to load devices). Leave the switch turned off for 10 seconds and then power the switch back up, plug each device back into switch individually to help troubleshoot the suspect cable.

Still need help? We have a fantastic online knowledge base and ticketed support system online at [softcctv.com/helpdesk/](https://softcctv.com/helpdesk/)

## RJ45 Straight Patch Leads

For the most efficient, problem free installation we recommend the use of high quality RJ45 patch leads (Ethernet leads). We have a range of white and black leads specifically made for PoE devices up to 100m in length at bargain prices!



### Black Order Codes:

- 1m Lead: **NET901B**
- 2m Lead: **NET902B**
- 5m Lead: **NET905B**
- 10m Lead: **NET910B**
- 15m Lead: **NET915B**
- 20m Lead: **NET920B**
- 25m Lead: **NET920B**
- 30m Lead: **NET930B**
- 50m Lead: **NET950B**
- 100m Lead: **NET959B**

### White Order Codes:

- 1m Lead: **NET901W**
- 2m Lead: **NET902W**
- 5m Lead: **NET905W**
- 10m Lead: **NET910W**
- 15m Lead: **NET915W**
- 20m Lead: **NET920W**
- 25m Lead: **NET920W**
- 30m Lead: **NET930W**
- 50m Lead: **NET950W**
- 100m Lead: **NET959W**



# Specifications

## Standard Switches

Feature	POE304	POE308
Downlinks	4 x RJ45	8 x RJ45
Uplinks	2 x RJ45	
PoE	30W (Max per port)	
Power	96W (Whole device maximum)	120W (Whole device maximum)
Bandwidth	10Mbps / 100Mbps	
Use	Internal Use Only	
Working Temperature	0°C ~ 40°C	
Mount	Wall Mount (Brackets supplied)	
Power Input	240V AC (Lead supplied)	
Dimensions	(w)210 x (d)136 x (h)44.5mm	

## Gigabit Switches

Feature	POE504	POE508	POE516	POE524
Downlinks	4 x RJ45	8 x RJ45	16 x RJ45	24 x RJ45
Uplinks	1 x RJ45	2 x RJ45		
Fibre Uplinks (SFP)	1	~	2	
Power	96W <i>(Whole device maximum)</i>	120W <i>(Whole device maximum)</i>	260W <i>(Whole device maximum)</i>	400W <i>(Whole device maximum)</i>
Bandwidth	10Mbps / 100Mbps / Gigabit (1000Mbps)			
Use	Internal Use Only			
Working Temperature	0°C ~ 40°C			
Mount	~	~	Wall Mount (Brackets supplied)	
Power Input	240V AC (Lead supplied)			
Dimensions	(w)210 x (d)136 x (h)44.5mm		(w)440 x (d)220 x (h)44.5mm	



All specifications are approximate. We reserve the right to change any product specifications or features without notice. Whilst every effort is made to ensure that these instructions are complete and accurate, We cannot be held responsible in any way for any losses, no matter how they arise, from errors or omissions in these instructions, or the performance or non-performance of the equipment that these instructions refer to.



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