

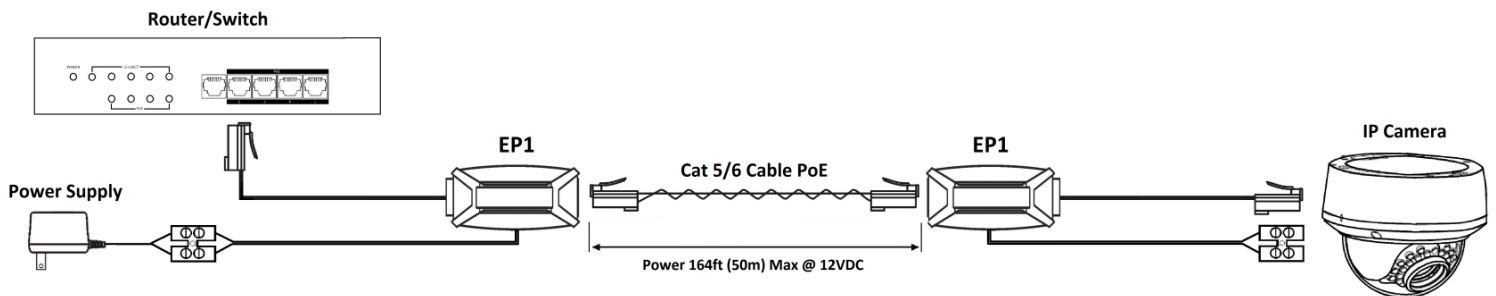
The EP1 Passive PoE (Power over Ethernet) uses unused pairs of CAT5/6 network cable to transmit power to remote equipment. This easy and low cost solution provides power for network devices that do not support Power over Ethernet. These devices include IP Cameras, Wireless Access Points, Routers, Modems, Switchers, Embedded Computers or other network devices.

- Supported Data Rate 10/100Mbps
- Send power to remote device over two pairs of the CAT5/6 network cable
- Kit includes 2 units/one pair, does not include power adapter
- Working distance depends on cable type and power requirements of device
- Plug n Play, Easy to install

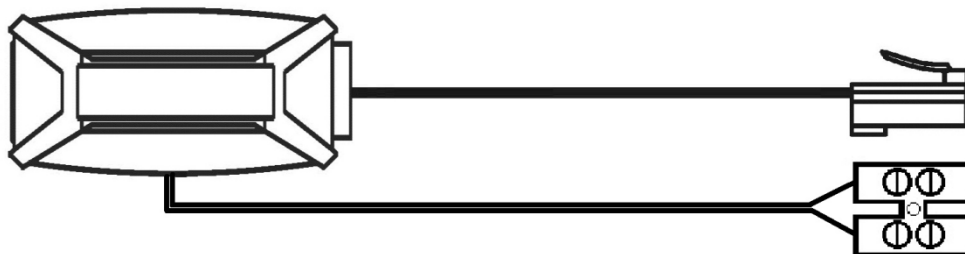
### Connection and Operation:

Before installation, please make sure devices you are connecting are turned off. Connect the power supply (Not Included) to EP1 at Router/Switch/PC location using white striped wire as positive and solid black wire as negative. From the device requiring power, connect the other EP1 included in the kit to the IP Camera, WAP or Touch Panel with white striped wire as positive and solid black wire as negative. Make sure you check the Voltage Drop Charts below on these instructions for correct power requirements for your device depending on the distance of CAT5/6 cable.

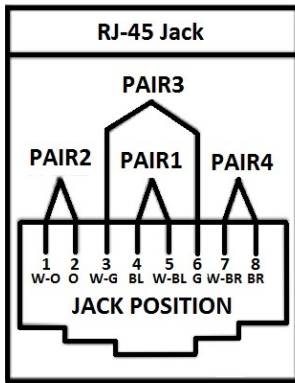
### Installation View:



### Panel View:



RJ45 Define:



Male Plug Side			Female Jack Side		
PIN	Color	Function	PIN	Color	Function
1	W-O	Data Pair 1	1	W-O	Data Pair 1
2	O	Data Pair 1	2	O	Data Pair 1
3	W-G	Data Pair 2	3	W-G	Data Pair 2
4	BL	N.C.	4	BL	Power +
5	W-BL	N.C.	5	W-BL	Power +
6	G	Data Pair 2	6	G	Data Pair 2
7	W-BR	N.C.	7	W-BR	Power GND
8	BR	N.C.	8	BR	Power GND

Voltage Drop According to Cable Length (24AWG):

Voltage:	12VDC								
	164ft (50m)			328ft (100m)			984ft (300m)		
Range	1 Pair	2 Pair	3 Pair	1 Pair	2 Pair	3 Pair	1 Pair	2 Pair	3 Pair
Power Consumption									
50mA	11.4	11.7	11.8	10.8	11.3	11.6	9.6	10.6	11
100mA	11	11.5	11.5	9.7	10.8	11.2	X	9.2	10.1
150mA	10.5	11.2	11.3	9	10.4	10.9	X	X	9.3
200mA	X	11	11.2	X	9.9	10.6	X	X	X
250mA	X	10.7	11	X	9.4	10.2	X	X	X
300mA	X	10.5	10.8	X	X	9.9	X	X	X
350mA	X	10.3	10.6	X	X	9.7	X	X	X
400mA	X	10	10.4	X	X	9.4	X	X	X
450mA	X	9.6	10.2	X	X	X	X	X	X
500mA	X	9.2	9.8	X	X	X	X	X	X

Voltage:	15VDC											
	164ft (50m)			328ft (100m)			984ft (300m)			1969ft (600m)		
Range	1 Pair	2 Pair	3 Pair	1 Pair	2 Pair	3 Pair	1 Pair	2 Pair	3 Pair	1 Pair	2 Pair	3 Pair
Power Consumption												
50mA	14.4	14.7	14.8	13.8	14.3	14.6	11.9	13.6	14	X	12	12.9
100mA	14	14.5	14.5	12.7	13.8	14.2	X	12.2	13.1	X	X	11.1
150mA	13.5	14.2	14.3	12	13.4	13.9	X	11.1	12.3	X	X	X
200mA	12.6	14	14.2	11.3	12.9	13.6	X	X	11.5	X	X	X
250mA	12.1	13.7	14	10.3	12.4	13.2	X	X	X	X	X	X
300mA	11.8	13.5	13.8	X	12	12.9	X	X	X	X	X	X
350mA	11.3	13.3	13.7	X	11.7	12.7	X	X	X	X	X	X
400mA	10.8	13	13.5	X	11.2	12.4	X	X	X	X	X	X
450mA	X	12.7	13.3	X	10.7	12.1	X	X	X	X	X	X
500mA	X	12.4	13.1	X	X	11.6	X	X	X	X	X	X

Voltage:	24VDC											
	164ft (50m)			328ft (100m)			984ft (300m)			1969ft (600m)		
Range	1 Pair	2 Pair	3 Pair	1 Pair	2 Pair	3 Pair	1 Pair	2 Pair	3 Pair	1 Pair	2 Pair	3 Pair
Power Consumption												
50mA	23.8	23.8	23.8	23	23.5	23.6	21	22.4	23	18.1	21.2	22.1
100mA	23.6	23.4	23.5	22.4	23.1	23.3	18.7	21.1	22.2	12.9	18.7	20.4
150mA	22.6	23.2	23.3	21.3	22.6	22.9	16.2	20	21.3	X	16.1	18.9
200mA	22.1	22.9	23.1	20.3	22	22.5	13.7	18.1	20.5	X	13.5	17.1
250mA	21.6	22.6	22.9	19.4	21.6	22.2	10.9	17.4	19.6	X	11.1	15.4
300mA	21.1	22.4	22.7	18.4	21.2	21.9	X	16.1	18.8	X	X	13.8
350mA	20.6	22.1	22.5	17.5	20.6	21.6	X	15	18.1	X	X	12.2
400mA	20.2	21.8	22.3	16.5	20.1	21.2	X	13.9	17.3	X	X	10.7
450mA	19.7	21.6	22.1	15.5	19.6	20.9	X	12.7	16.6	X	X	X
500mA	19.1	21.3	21.9	14.5	19.1	20.5	X	11.3	15.4	X	X	X

**Package Contents:**

- Passive PoE Kit (2 pieces)
- User Instructions

**Specifications:**

<b>Model:</b>	<b>EP1</b>
Ethernet Connector	RJ45
Ethernet Data Rate	10/100Mbps
Power	Screw Terminal (2-Pin)
Temperature	Operation: 32 to 131°F, Storage: -4 to 176°F, Humidity: up to 95%
Dimensions – Inches	2.71”(w) .98”(h) .87”(d)
Weight – lbs	.07



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