

**Introduction**

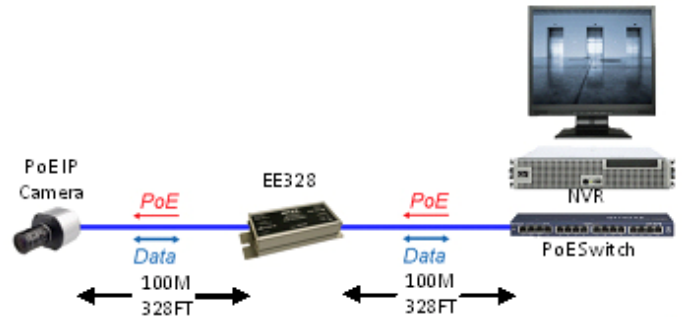
The EE328 Ethernet & POE Extender is designed to greatly extend the distances to which IP cameras and network devices can operate. The EE328 regenerates network communication and passes POE power through itself and on down the network cable. When used with an optional 48VDC power supply the EE328 can operate as a fully independent repeater and IEEE802.3af POE inserter. If needed, several EE328 units can be used in series to extend a network communication and POE.

**Install EE328 with a POE Source Switch and IP Cameras**

Refer to the diagram below when installing. Use best industry practices and follow all local building codes. When installing with a POE source, insert the EE328 at a distance of 100 meters or less from the network switch. The cable leaving the EE328 and going to the next device in the chain must be 100 meters or less to insure proper operation. Several EE328 units can be used in series to extend the network communication.

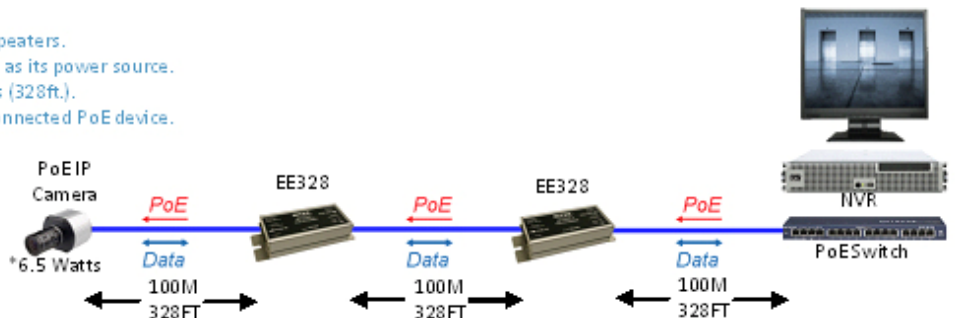
**Installation using the EE328 with a PoE Switch.**

The EE328 is being used as an inline Ethernet and PoE repeater.  
 The EE328 uses the power provided from the PoE switch as its power source.  
 The unit must be installed at or before every 100 meters (328ft.).



**Installation using multiple EE328's with a PoE Switch.**

The EE328's are being used as inline Ethernet and PoE repeaters.  
 The EE328's use the power provided from the PoE switch as its power source.  
 The units must be installed at or before every 100 meters (328ft.).  
 \*In this configuration 6.5watts will be available for the connected PoE device.



LED INDICATORS				
Connector	LED	OFF	ON	FLASHING
POE IN	Power	No power	Power Good	Power Marginal
	Receive Link Activity	No Ethernet Link	Ethernet Link Good	Network Active
POE OUT	POE Out Powered	No Power or Power Error	POE Out Enabled	No POE Device Connected
	Transmit Link Activity	No Ethernet Link	Ethernet Link Good	Network Active

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## Install EE328 without POE source device.

Refer to the diagram below when installing. Use best industry practices and follow all local building codes. When installing without a POE source device, insert the EE328 at a distance of 100 meters or less from the network switch. The cable leaving the EE328 and going to the next device in the chain must be 100 meters or less to insure proper operation. The **first EE328** unit in the chain must be powered with an optional 48VDC power supply. Also note that more than one 48VDC power supply may be used in a long chain of units. The advantage to an additional supply at the end of the chain is to increase the POE voltage/wattage available for POE equipment connected to your cable.

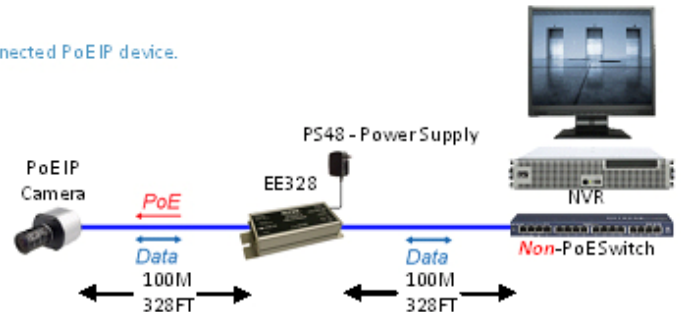
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### Installation using the EE328 with a Non-PoE Switch.

The EE328 is being used as a PoE inserter and an inline Ethernet repeater.

The PS48 power supply (**Sold Separately**) will power the EE328 and insert PoE for the connected PoE IP device.

The unit must be installed at or before every 100 meters (328ft.).



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### Installation using multiple EE328's with a PoE Switch to achieve substantially long cable distances.

The EE328's are being used as inline Ethernet and PoE repeater. Due to the power drop associated with these great distances, the PS48 power supply (**Sold Separately**) is being used with the last EE328 in line to insert power to the IP device.

The units must be installed at or before every 100 meters (328ft.).

