



Topology of Power Over Ethernet Connection – POE (Power Only)

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This is the topology for a POE connection using a POE Injector and POE splitter to power the Automate Pulse Hubs. In this topology, it is necessary to have one POE injector, to power many hubs at the same time and one POE Splitter for each hub.

To specify the correct POE injector for the topology important to know:

1. How many hub's we can plug in to the same POE Power Supply;
2. The distances between the POE Power Supply and the last Hub;
3. The Power in Watts of the POE Injector will support all hubs connected at the same time;

Example:

One Automate Pulse Hub consumes 5 watts;

One POE Injector is 60W (*according to the specification*)

The distances should be less than 100mtr/328ft (*assuming CAT5 cable*) including stubs.

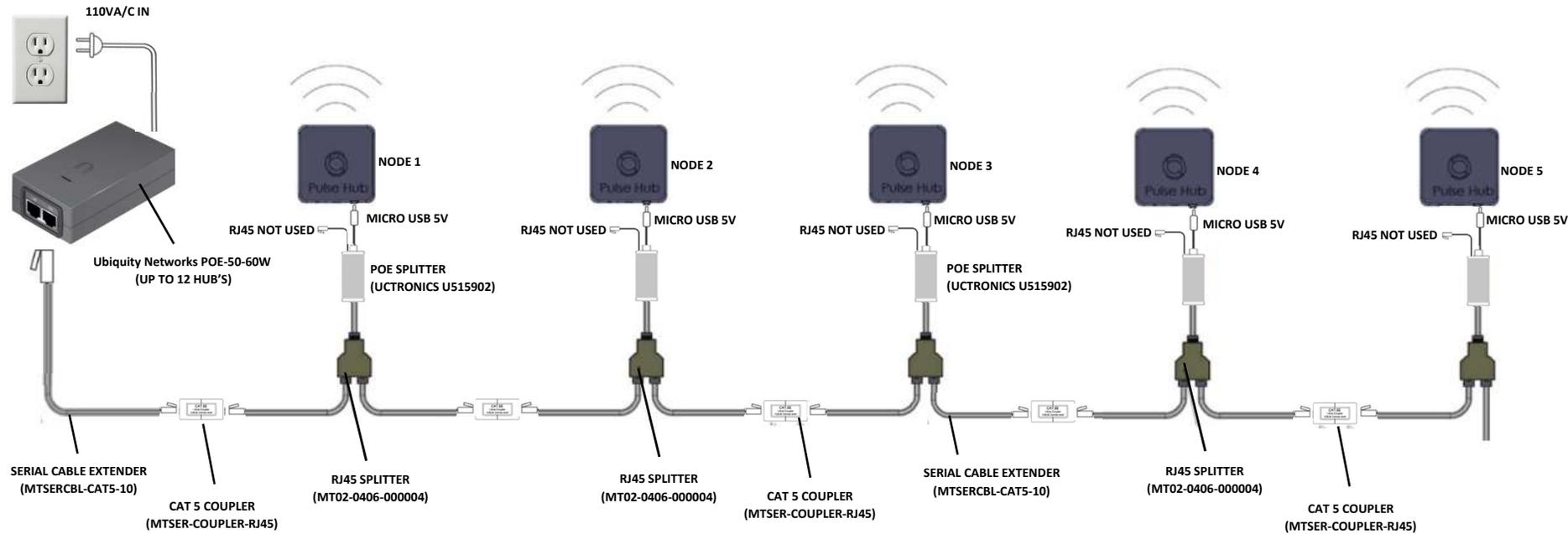
- **Total of Hub's supported in this topology is 60W/5W = 12 Hubs.**

Items that should be used during a topology specification:

#Number	Item Name	Part Number	Quantity	Source from
01	POE Injector 50-60w	Ubiquity Networks POE-50-60W	1 to each 12 Hub's <i>is not recommended works in the limit of the POE Injector</i>	Others
02	SERIAL CABLE EXTENDER	MTSERCBL-CAT5-10	*Depends on distances	Rollease Acmeda
03	CAT 5 Coupler	MTSER-COUPLER-RJ45	*Depends on distances	Rollease Acmeda
04	CAT 5 Splitter	MT02-0406-000004	1 per Hub	Rollease Acmeda
05	POE Splitter (Micro USB)	UCTRONICS U515902	1 per Hub	Others
06	PULSE WIFI BRIDGE	MTRF-WIFIBRIDGE-KIT	Up to 12 per POE Injector with 60W	Rollease Acmeda

Note: due the section of the cable/ voltage drop in the cable distances it's not recommended works in the power limit of the POE Injector!!

Daisy Chain Topology:



Star Topology:

