

## POE Midspan Injectors

### Features

- High Power Passive Midspan POE Injectors
- Up to 24W per Individual Port
- 18V and 24V models available
- Available with AC and regulated DC inputs
- 1U Standard Rack Mount (19" and 23")
- Supports non standard 802.3af devices
- Remotely Power Multiple Equipment thru CAT5 Cable up to 100m
- Built in Ethernet surge suppression



### Applications

- Wireless Access Points and Client Devices
- IP Phone and Security Camera Systems
- Power network devices from a central network room

### Description

The **TP-NCMS** series of rack mount mid span POE power sources are used for supplying POE and data to up to 12 devices from a central location such as an operations room. The POE devices feature a separate data-in port coupled with a data out/POE port which employs built in Ethernet surge suppression. The POE function is not IEEE802.3af compliant, useful for powering those devices that require a POE voltage other than 48V. The TP-NCMS412-24 has AC and DC inputs. The DC input is regulated so if running off a battery system the 24V POE to the client devices won't exceed 24.5V. When running from DC input voltage the TP-NCMS412-24 can operate down to 12VDC and POE output voltage will equal the DC input voltage – 2V.

POE DC Voltage is supplied on pins 4,5 (V+) and 7,8 (V-). The individual outputs are overload, short circuit and surge protected.

The 1U rack mounting accommodates 19" or 23" racks with included brackets.

### Device Pinouts

| RJ-45 Input Port (Data Only) |               |                    | RJ-45 Output Port (Data & Power) |                    |
|------------------------------|---------------|--------------------|----------------------------------|--------------------|
| <i>Pin</i>                   | <i>Symbol</i> | <i>Description</i> | <i>Symbol</i>                    | <i>Description</i> |
| 1                            | RX+           | Data Receive(+)    | RX+                              | Data Receive(+)    |
| 2                            | RX-           | Data Receive(-)    | RX-                              | Data Receive(-)    |
| 3                            | TX+           | Data Transmit(+)   | TX+                              | Data Transmit(+)   |
| 4                            | NC            | No Connection      | +Vdc                             | DC power(+)        |
| 5                            | NC            | No Connection      | +Vdc                             | DC power(+)        |
| 6                            | TX-           | Data Transmit(-)   | TX-                              | Data Transmit(-)   |
| 7                            | NC            | No Connection      | -Vdc                             | DC power(-)        |
| 8                            | NC            | No Connection      | -Vdc                             | DC power(-)        |

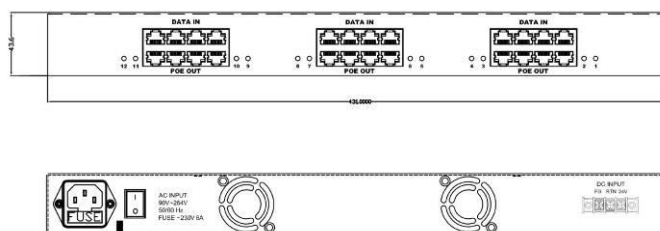
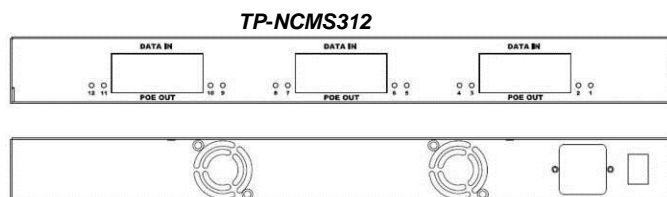
## Specifications

|                                | TP-NCMS312  | TP-NCMS412  |
|--------------------------------|---|---|
| <b>Ethernet Standard</b>       | IEEE802.3/IEEE802.3u (10/100Mbps)   | IEEE802.3/IEEE802.3u (10/100/1000Mbps)  |
| <b>POE Standard</b>            | Passive/Non Compliant - POE Voltage supplied on pins 4,5(+), 7,8(-)                 |   |
| <b>Shielded RJ45 Ports</b>     | 12 data-in ; 12 data/POE out  |   |
| <b>Max Device Distance</b>     | 100m (328ft)  |   |
| <b>Max Current per Port</b>    | 0.8A @ 24VDC ; 1A @ 18VDC   | 1.0A @24VDC   |
| <b>POE Protection</b>          | Over Temperature, Over Current, Over/Under Voltage                                  |   |
| <b>LED's</b>                   | Power On and POE ready (RED)<br>POE Outputting power (GREEN)<br>Power Off (LED OFF) |   |
| <b>AC Power Input</b>          | 90~264VAC, 50/60Hz  |   |
| <b>AC Input Current</b>        | 4A @ 115VAC / <2A @ 230VAC  |   |
| <b>DC Input Voltage</b>        | n/a   | 24.5 to 28V* @ 12A max<br><small>*Note: DC input can be as low as 12V but POE voltage will be 2V less than input voltage.</small> |
| <b>Max Power Consumption</b>   | 230W  | 300W  |
| <b>Operating Temperature</b>   | 0 to +40°C (32 to 104°F)  | -20 to +70C (-4 to +158°F)  |
| <b>Operating Humidity (RH)</b> | 10% - 90% (non condensing)  | Up to 90% (non condensing)  |
| <b>Storage Temperature</b>     | -20 to +80°C (-4 to +176°F)   | -25 to +85°C (-13 to +185°F)  |
| <b>Storage Humidity</b>        | Up to 93% (non-condensing)  |   |
| <b>Dimensions (LxWxH)</b>      | 431 x 190 x 44mm (17 x 7.5 x 1.7")<br>1U rack mount 19" and 23"                     |   |
| <b>Weight</b>                  | 2.7kg (6lb)   |   |

### Notes:

- All shipments F.O.B. Bluffdale, UT 84065
- TP-NCMS Midspan POE carry a 1 year warranty

### TP-NCMS412



## System Ordering:

### TP-NCMS312-18

12 Port 18V POE Mid Span Injector AC Input only with US Power Cord\*

### TP-NCMS312-24

12 Port 24V POE Mid Span Injector AC Input only with US Power Cord\*

### TP-NCMS412-24

12 Port 24V POE Mid Span Injector, DC and AC input with US Power Cord\*

\*Add an "E" suffix for Euro power cord

## For further information contact:

[Tyconpower.com](http://Tyconpower.com)



693 Draper Heights Way Ste 102  
Draper, UT 84020  
PH: 801-432-0003  
FAX: 801-618-4220