POE30-24 2.4GHz Power Over Ethernet Amplifier

Product Overview

The POE30-24 is an innovative RF amplifier designed to power both itself and an 802.3af compliant AP/Router through a single CAT-5 data cable. With its innovative design, Integrators can reduce the number of required cable runs, thus lowering their overall installation time and cost. The POE30-24 accomplishes this by eliminating the co-axial cable between the traditional amplifier and its DC power injector. By eliminating the intermediate coaxial cable, precious dB's are recovered resulting in a cleaner signal and greater range.

The POE30-24 comes complete with DC injector* and 802.3af compliant 48V@.83A (40W) power supply.

* The DC injector is available in both 802.3af and Cisco standards.

Ideal Solution For:

- Hospitality Buildout
- Wireless Internet Service Provider
- Bridge Link Between Networks

Applications

- WLAN 802.11b & b+
- WLAN 802.11g & 802.11superG
- DSSS on the ISM Band
- Bluetooth

Features

- Extremely Fast Switching Speed
- High Gain and Low Noise
- Low Power Consumption
- Power Over Ethernet 802.3af Compliant
- Compact Size
- PWR/Tx/Rx Diagnosis Lights
- N-type Female Connectors
POE30-24 2.4GHz Power Over Ethernet Amplifier

Specifications - POE30-24 Signal Booster Module

<table>
<thead>
<tr>
<th>Model Number</th>
<th>POE30-24</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency Band</td>
<td>2.4 ~ 2.5 GHz</td>
</tr>
<tr>
<td>Signal Type</td>
<td>DSSS</td>
</tr>
<tr>
<td>TR Switch Time</td>
<td>&lt; 1µsec</td>
</tr>
<tr>
<td>Rx Max. Input Power</td>
<td>-10 dBm</td>
</tr>
<tr>
<td>Rx Power Gain</td>
<td>20 dB max.</td>
</tr>
<tr>
<td>Tx Input Power</td>
<td>+5 dBm ~ +20 dBm</td>
</tr>
<tr>
<td>Tx Linear output Power</td>
<td>1000 mW / +30 dBm max.</td>
</tr>
<tr>
<td>Diagnosis LED</td>
<td>PWR@Green, Tx@Red, Rx@Blue</td>
</tr>
<tr>
<td>DC Supply Voltage</td>
<td>48V DC</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-0 ~ +40 °C</td>
</tr>
</tbody>
</table>

Absolute Maximum Ratings

- Supply Voltage 48V
- Rx Input power -10 dBm
- Tx Input power +20 dBm
- Operating Temperature -0 ~ +50 °C
- Storage Temperature -40 ~ +90 °C

POE30-24 Sample Installation Diagram

NOTE: RF Coaxial Cables and CAT-5 Cables are not included.