

P12 isolated PoE+ module (power input)



Overview

Add-on module for Auidea carrier boards (JNX30M, JNX42 and more) to add powering via the Ethernet connection (PoE-PD). 25W peak power is sufficient for mid-range Jetson systems (Orin Nano).

Please reserve a certain margin, to allow peak power draw by the Jetson. Also please account for the power requirements of peripherals like SSD, cameras and more.

For high power Orin NX systems, we recommend the PoE++ modules with 72W of peak power like our P17P or P18.

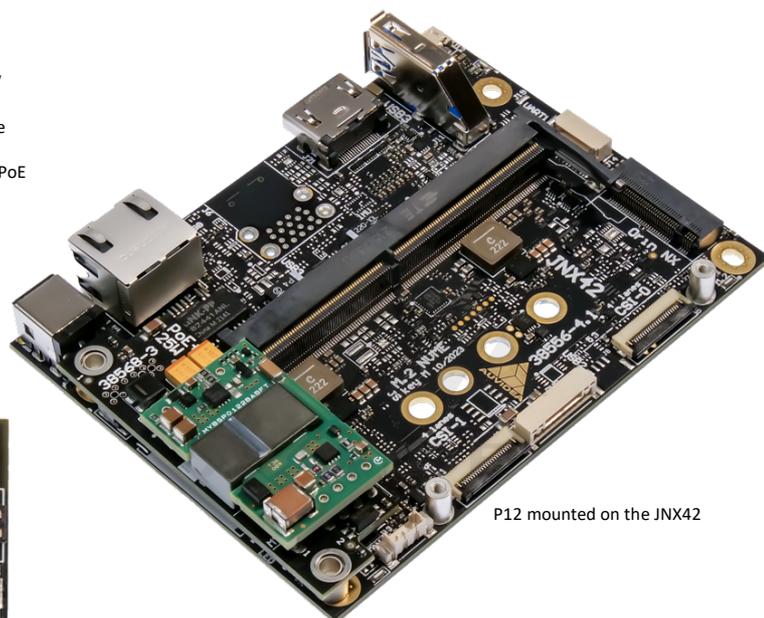
If a high-power Orin system must be powered by PoE+ (P12), we recommend adding a supercap based UPS subsystem, to support the power spikes. Please contact us for options.

Features

- Isolated PoE+ module: Murata MYBSP0122BABFT (12V 2A, 25.5W)
- Alternative models for 13W (PoE) and 72W (PoE++) are available
- Output voltage: diode bridge ORs DC in and output of PoE module
- Software controllable load of 0.5W to meet minimum power load specification of PoE+
- Status information with Jetson pin 212
- Designed and manufactured in Germany

Technical Specifications

| Feature | Description |
|-----------------------------------|-----------------------------|
| Compatible carrier boards | JNX30M, JNX42, and more |
| PoE parameter | 802.3at Type 2 (PoE+) 25.5W |
| DC power in | 12V nominal |
| DC power out | 12V (to carrier board) |
| Reverse voltage protection | ✓ |
| Transient over voltage protection | ✓ |
| Size | 22.5mm x 65mm |
| Weight | ca. 22 grams |
| Model number | 38568-3 |



P12 mounted on the JNX42

P12 top view



P12 bottom view



Compatible carrier boards

| SKU | Part |
|---------|--------|
| 70801-M | JNX30M |
| 70784 | JNX42 |

Variants

| SKU | Part |
|-------|--------------------------|
| 70893 | P12 isolated PoE+ module |

PoE++ modules

| SKU | Part |
|-------|---|
| 70428 | P17P isolated PoE++ module |
| 70429 | P18 PoE++ with GbE controller and GPIOs |

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