

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.

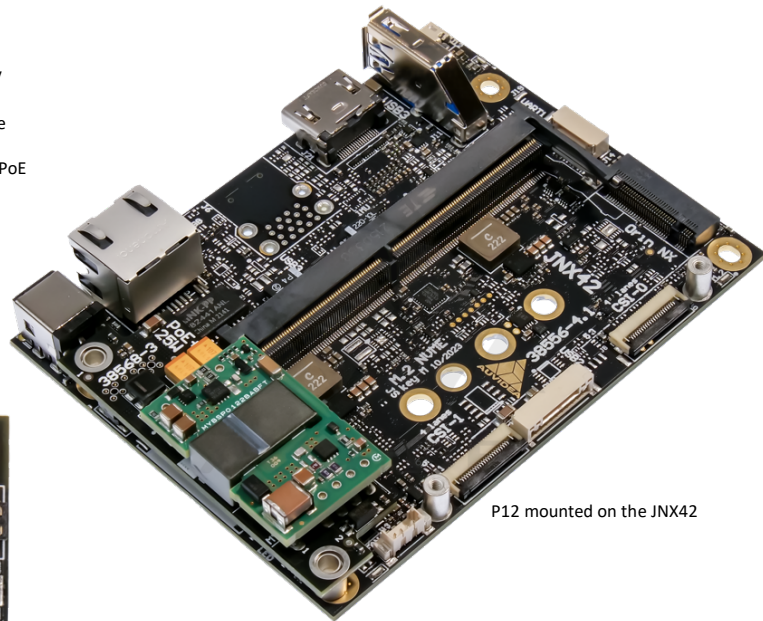
If a high-power Orin system must be powered by PoE+ (P12), we recommend adding a supercap based UPS subsystem, to support the power spikes. Please contact us for options.

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

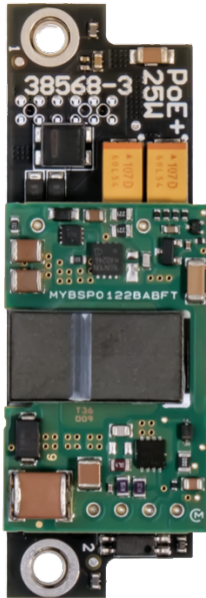
Technical Specifications

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

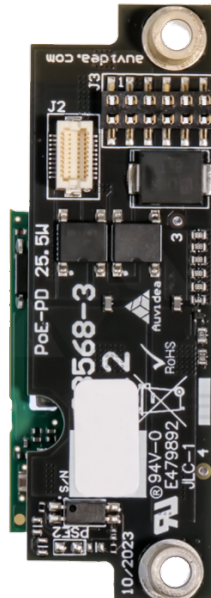


P12 mounted on the JNX42

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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