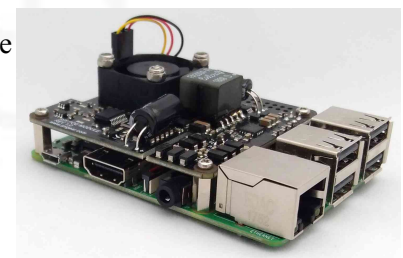
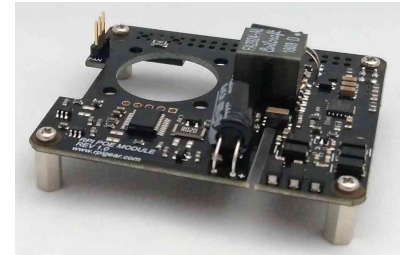


Raspberry Pi POE Module Datasheet

Main Features

- High output current, high efficiency isolated dc/dc design
- Multi speed fan controller with stuck rotor detection, automatic fan speed adjustment based on the Pi temperature. User can select the target temperature.
- Full control and diagnostics with Linux commands, voltage, current, power, and temperature. Both on the Raspberry Pi side and the POE side.
- Advanced features include the ability to power cycle the Pi remotely and a watchdog that can power cycle the Pi if it becomes unresponsive due to a software crash or similar.
- Stackable architecture and configurable i2c address allows other boards to be stacked on top.



Specifications

POE Input	44V – 57V <i>Note 1</i>
POE Signature	IEEE 802.3 compliant Class 3 Powered Device
Output	5V, 3A 86% efficiency <i>Note 2</i>
Fan Controller	Variable speed with stuck rotor detection 3 pin male header, 2.54mm pitch Standard 25mm x 25mm outline <i>Note 3</i>
Operating Current	15mA <i>Note 4</i>
Communications	i2c up to 400Khz, user configurable address
Operating Temperature	-10C to 85C Ambient
Mechanical	Dimensions: 65mm x 57mm x 21mm Weight : 22g <i>Note 5</i>

Note 1 : POE Injector or ethernet switch should be capable of providing at least 15W of power.

Note 2 : Efficiency measured with 47V input and 2.6A output. Please note that a fan may be required for sustained operation at high ambient temperatures and/or high loads.

Note 3 : A 5V 3 pin fan is recommended, if using a 2 pin fan remember to disable the stuck rotor detection in the configuration file to suppress the alarms. See user guide for details.

Note 4 : Measured with 48V input, 5V going to Pi turned on, Pi not connected

Note 5 : Not including mounting hardware or fan