
Radxa 25W PoE HAT

Single Cable for Networking and Power Supply

Revision 1.0

2023-09-06



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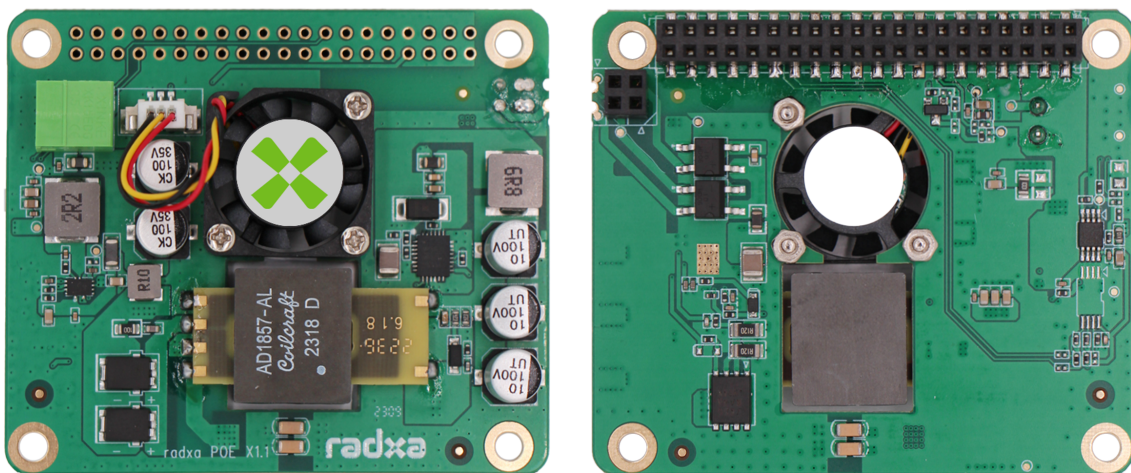
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1 Revision Control Table

Version	Date	Changes from previous version
1.0	06/09/2022	First version

2 Introduction

The Radxa 25W PoE HAT is an add-on board specifically designed for Radxa SBCs equipped with PoE pins, offering full compatibility with various Radxa SBC products. Provided that the user's gateway equipment supports power delivery, you can establish both network connectivity and power supply for Radxa SBCs featuring PoE pins using a single Ethernet cable.

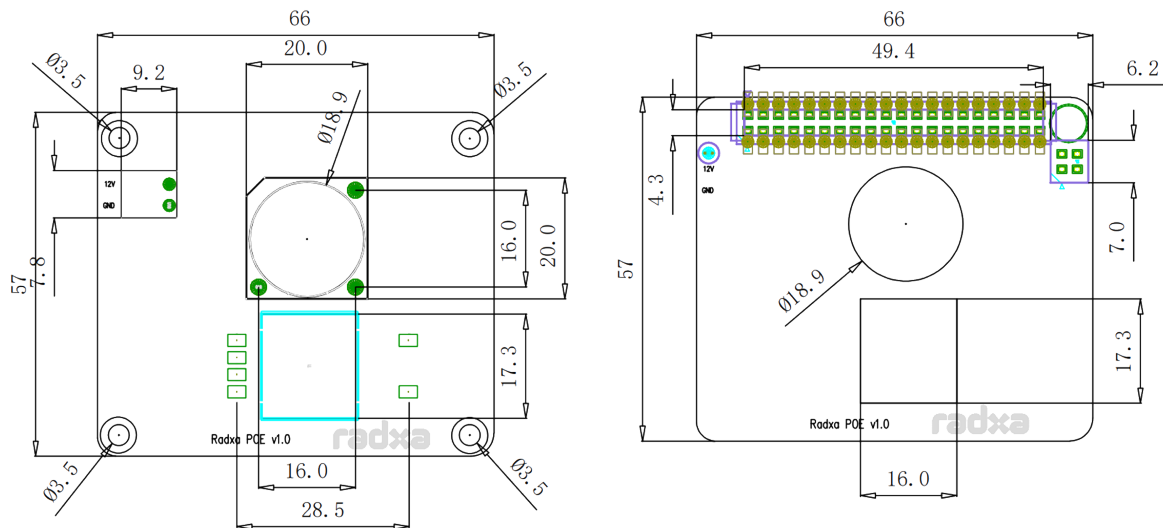


3 Features

- Compliant with IEEE 802.3af/at standards
- Wide input voltage range: 37V to 57V.
- Output Voltage/Current: 5V / 4.8A, 12V / 2.1A
 - When only a 5 load is connected, the PoE output is up to 5V DC / 4.8A.
 - When only a 12V load is connected, the PoE output is up to 12V DC / 2.1A.
- Features a programmable temperature sensor.

- Equipped with a customizable Cooling Fan delivering 1.45CFM for processor cooling
 - Size: 20 x 20 mm
 - Speed: 15000±15%RPM
- Compatible with Radxa ROCK 3A, 3B, 3C, 4C+, 5A, and 5B
- Operating temperature range: 0°C to +50°C

4 Mechanical Diagram



5 Package List

- 1x Radxa 25W PoE HAT with cooling fan
- 4x M2.5×4 Copper Pillars
- 4x M2.5x9, 6mm Length Copper Pillars
- 4x M2.5x4, 6mm Length Copper Pillars

6 Availability

Radxa guarantees availability of the Radxa 25W PoE HAT until at least September 2029.

7 Support

For support please see the hardware documentation section of the [Radxa Documentation Center](#) website and post questions to the [Radxa forum](#).

