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# Atomic PoE Base

SKU:A091



## Description

The **Atomic PoE Base** is an Ethernet controller base compatible with the ATOM series main control units. It supports PoE (Power over Ethernet) technology, allowing the device to be powered directly through a PoE hub/switch without the need for a separate power supply, effectively reducing wiring costs. The base features a built-in W5500 embedded Ethernet controller, which integrates a TCP/IP protocol stack, 8 independent hardware sockets, and 10/100M Ethernet data link layer (MAC) and physical layer (PHY), providing a more convenient internet connection solution for embedded systems. It meets the wired network access requirements in real production environments.

## Features

- Compatible with Atom-Lite/Atom-Matrix/AtomS3/AtomS3-Lite
- Supports PoE IEEE802.3 AF
- Wired Ethernet access
- Supports 8 independent hardware sockets for simultaneous communication
- Supports TCP, UDP, ICMP, IPv4, ARP, IGMP, PPPoE protocols
- Integrated 10BaseT / 100Base-T Ethernet PHY

## | Includes

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- 1 x Atomic PoE Base

## | Applications

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- Remote control
- Wired network access

## | Specifications

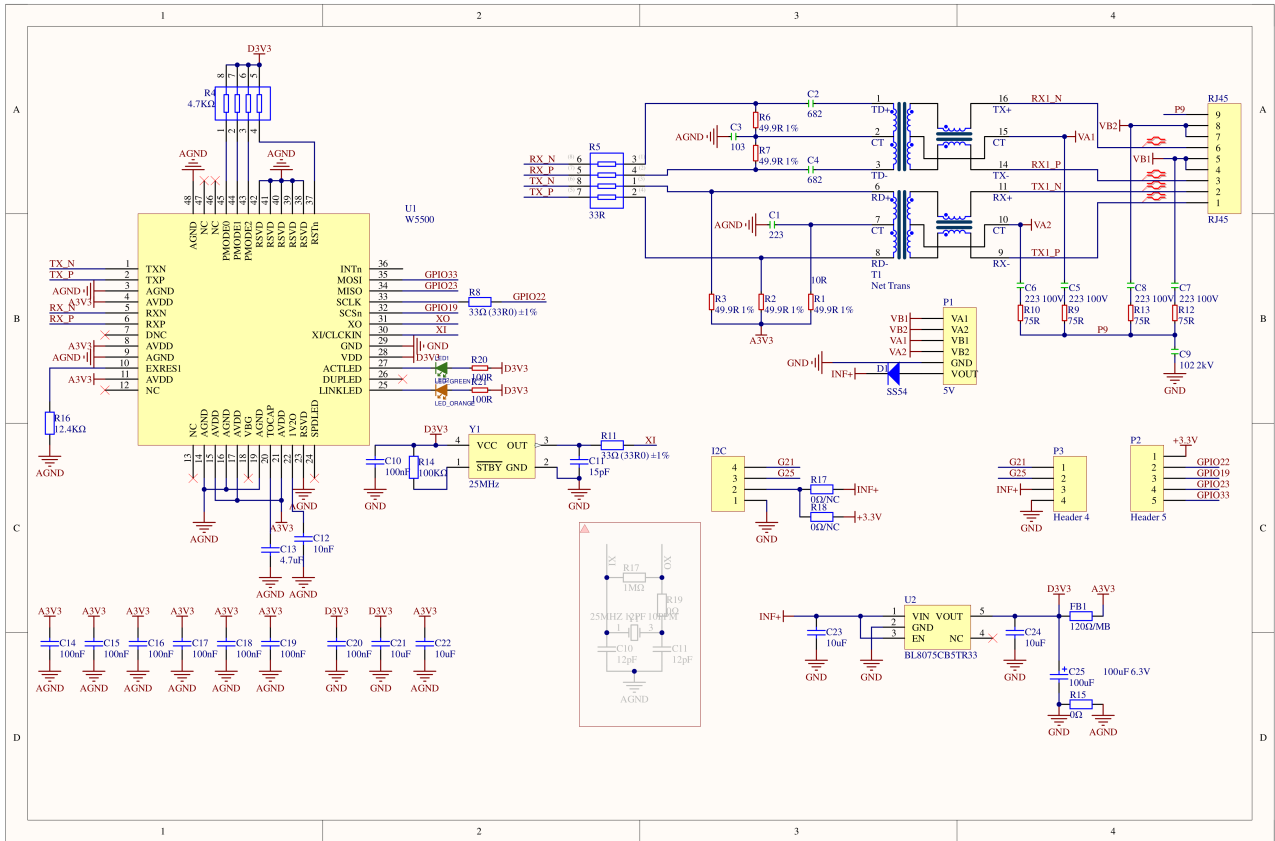
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| Specification         | Details                                                           |
|-----------------------|-------------------------------------------------------------------|
| Ethernet Chip         | W5500                                                             |
| Supported Protocols   | TCP, UDP, ICMP, IPv4, ARP, IGMP, PPPoE                            |
| PoE Power Supply      | Idle pin power supply (10M/100M Ethernet), J4&J5(VC-), J7&J8(VC+) |
| PoE Standard          | IEEE802.3 AF                                                      |
| Operating Temperature | 0 ~ 40°C                                                          |
| Product Dimensions    | 64 x 18 x 18mm                                                    |
| Product Weight        | 17g                                                               |
| Package Dimensions    | 136 x 92 x 20mm                                                   |
| Gross Weight          | 20.5g                                                             |

## | Schematics

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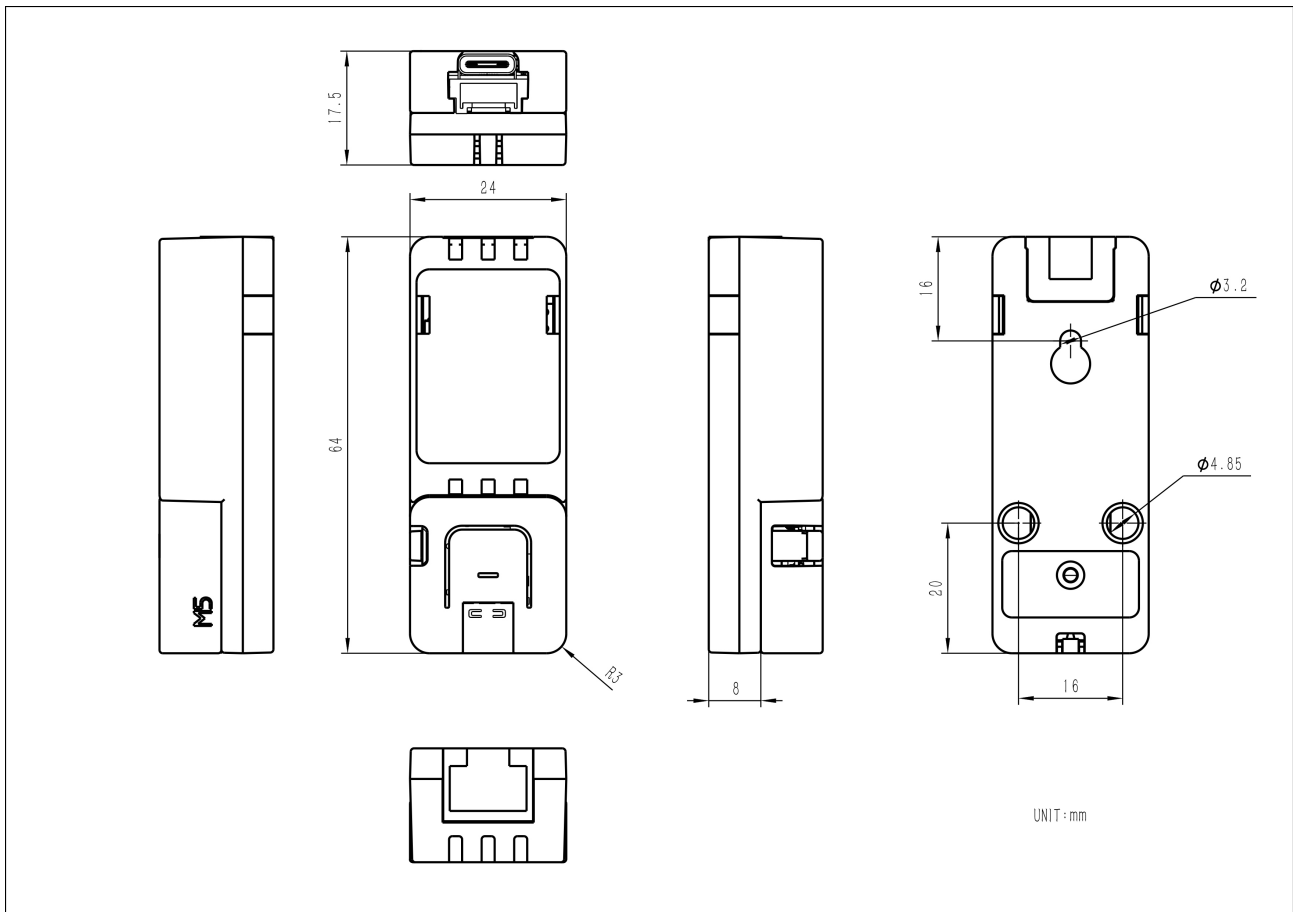
- [Atomic PoE Base Schematics PDF](#)



## PinMap

| ATOMIC PoE Base | CLK    | CS     | MISO   | MOSI   |
|-----------------|--------|--------|--------|--------|
| ATOM LITE       | GPI022 | GPI019 | GPI023 | GPI033 |
| ATOM Matrix     | GPI022 | GPI019 | GPI023 | GPI033 |
| ATOMS3 LITE     | GPI05  | GPI06  | GPI07  | GPI08  |
| ATOMS3          | GPI05  | GPI06  | GPI07  | GPI08  |

## Model Size



## Datasheets

- [W5500](#)

## Softwares

### Arduino

- [Atomic PoE Base Remote LED Control - with Atom-Lite](#)
- [Atomic PoE Base HTTP Client - with AtomS3](#)
- [Atomic PoE Base LinkStatus - with AtomS3](#)
- [Atomic PoE Base MQTT Client - with AtomS3](#)
- [Atomic PoE Base WebServer - with AtomS3](#)

### UiFlow1

- [Atomic PoE Base UiFlow1 Docs](#)

### EasyLoader

| Easyloader                      | Download Link            | Notes |
|---------------------------------|--------------------------|-------|
| Atomic PoE Base Test Easyloader | <a href="#">download</a> | /     |

## | Video

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- Connect to Ethernet, access the control page via IP, and control the RGB LED to change colors

[ATOM\\_PoE.mp4](#)