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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

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

| Includes

- 1 x Atomic PoE Base

| Applications

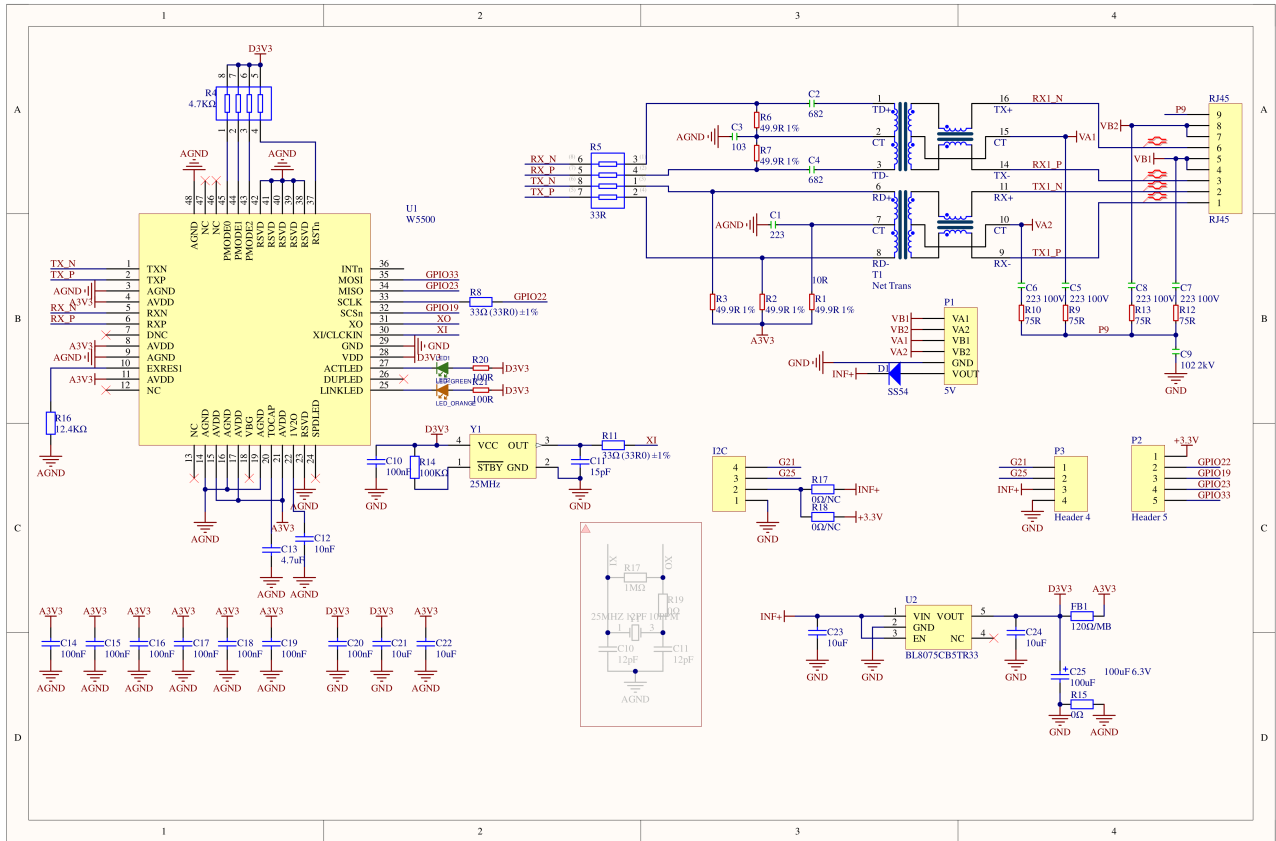
- Remote control
- Wired network access

| Specifications

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

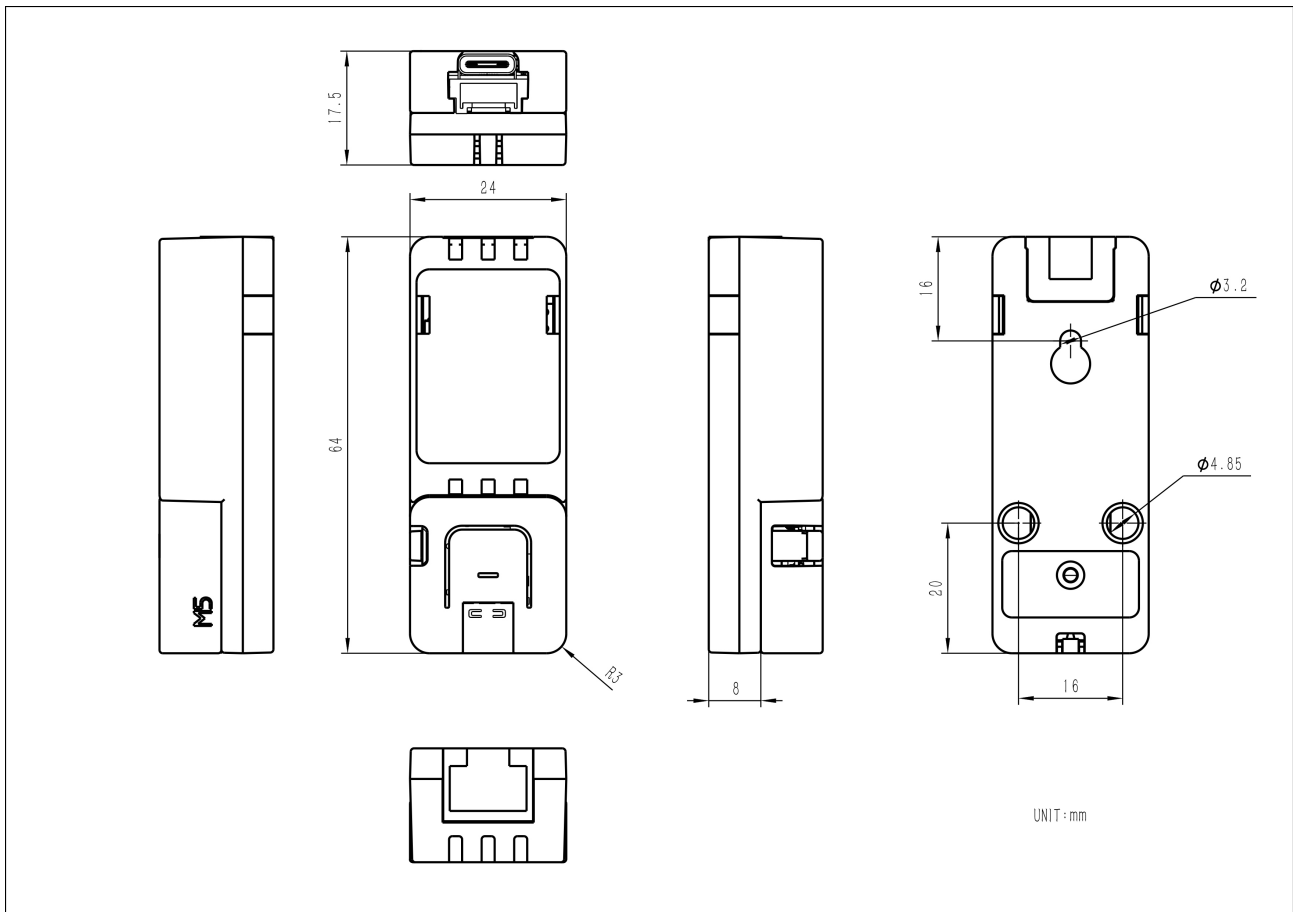
- [Atomic PoE Base Schematics PDF](#)



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	download	/

| Video

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

[ATOM_PoE.mp4](#)