Atomic PoE Base 🛒

SKU:A091

Description

Atomic PoE Base is an Ethernet controller base specifically designed for the ATOM series main controller. It is equipped with an Ethernet (PoE) module, allowing it to receive power directly from a PoE hub or switch. This eliminates the need for a separate power supply, reducing infrastructure costs and simplifying setup.

The base features the embedded W5500 Ethernet controller, which integrates the TCP/IP protocol stack. This controller provides 8 independent hardware sockets, allowing for simultaneous communication with multiple devices or services. The Ethernet data link layer (MAC) and physical layer (PHY) support 10/100M Ethernet, ensuring reliable and fast network connectivity.

With its capabilities, Atomic PoE Base offers a convenient internet connectivity solution for embedded systems. It meets the wired network access requirements in practical production environments, making it suitable for a wide range of applications.

Features

- Applicable to Atom Lite/Atom Matrix/AtomS3/AtomS3 Lite
- Supports PoE IEEE802.3 AF

- Wired Ethernet Access
- 8 independent hardware sockets
- Supports TCP、UDP、ICMP、IPv4、ARP、IGMP、PPPoE
- Integrated 10BaseT / 100Base-T Ethernet PHY

| Includes

- 1x Atomic PoE Base

## | Applications

- Remote control
- Wired Internet connection

| Specification

Resources	Parameters
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 Spec	IEEE802.3 AF
Operating temperature	0-40°C
Product Size	64*18*18mm
Package Size	136*92*20mm
Product Weight	17g
Package Weight	20.5g

Related Link

- [W5500](#)

Schematic
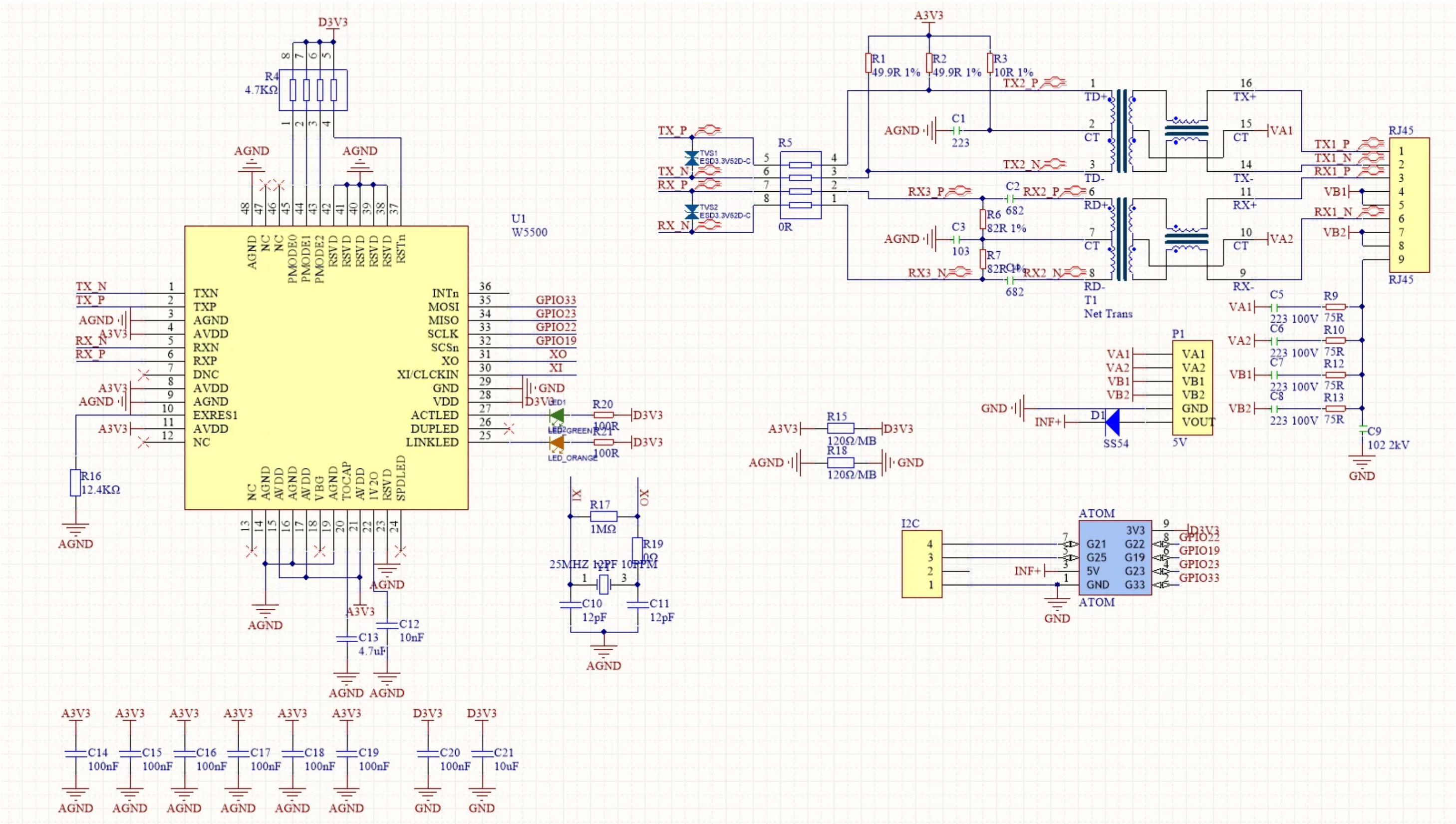
EasyLoader

- **Windows**
  - [EasyLoader_Atom_PoE](#)

PinMap

ATOMIC PoE Base	CLK	CS	MISO	MOSI
ATOM LITE	GPIO22	GPIO19	GPIO23	GPIO33
ATOM Matrix	GPIO22	GPIO19	GPIO23	GPIO33
ATOMS3 LITE	GPIO5	GPIO6	GPIO7	GPIO8
ATOMS3	GPIO5	GPIO6	GPIO7	GPIO8

Module Size
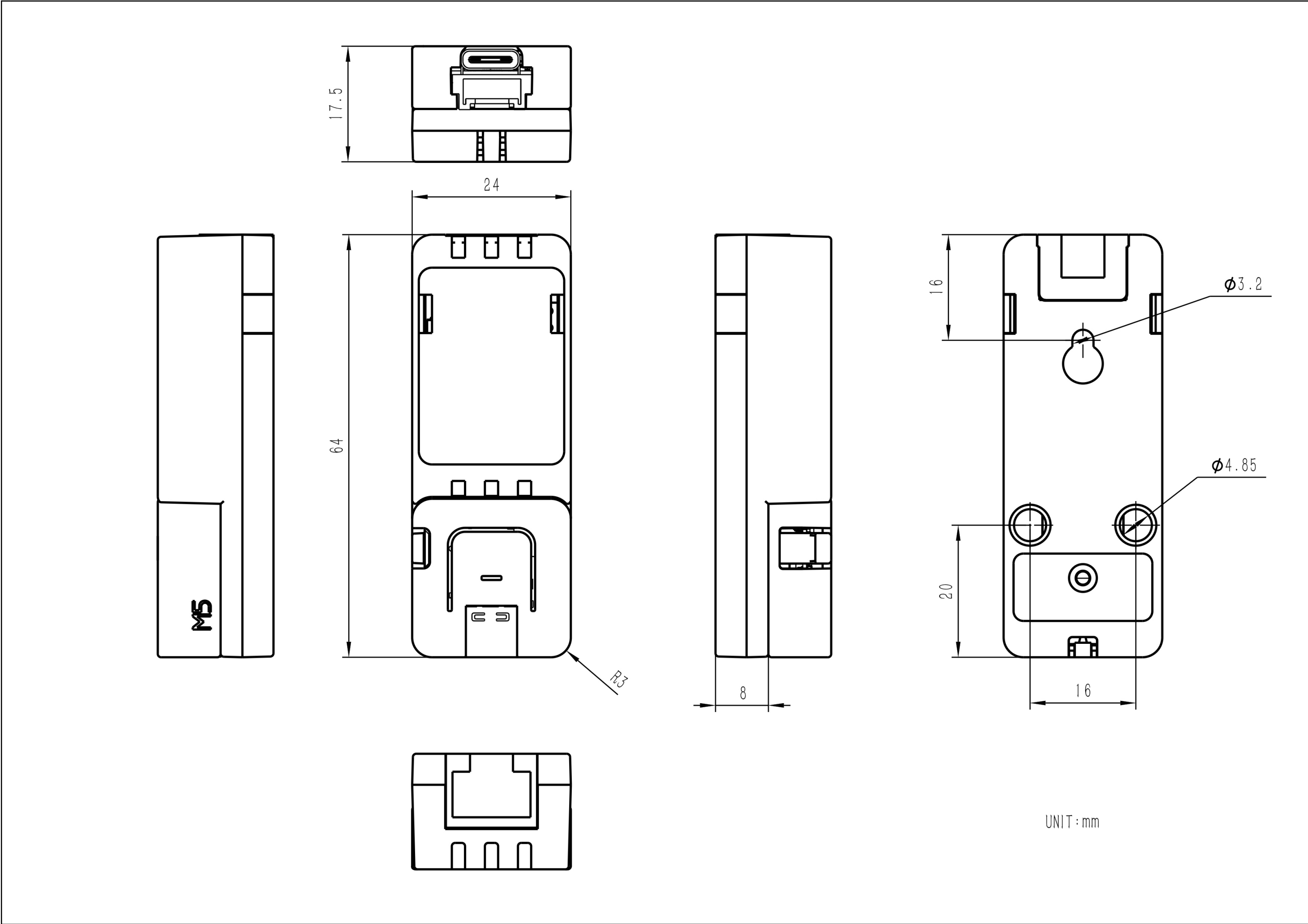
Examples

Arduino

- Atomic PoE Base Remote control LED(ATOM Lite/ATOM Matrix)

- Atomic PoE Base HTTP Example(AtomS3)

- Atomic PoE Base Network Connection State (AtomS3)

- Atomic PoE Base MQTT （AtomS3）

- Atomic PoE Base WebServer （AtomS3）

Video

- Connect to Ethernet, access the IP-based control page, and manage RGB LED to change colors.

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