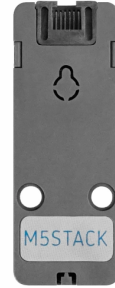


Atom PoE

SKU:K052



Description

Atom PoE is an Ethernet controller base compatible with the ATOM main control, supporting PoE (Power over Ethernet) technology. Through the built-in PoE module, the device can be powered directly via a PoE hub/switch without the need for a separate power supply, effectively reducing wiring costs. The built-in W5500 embedded Ethernet controller integrates a TCP/IP protocol stack, features 8 independent hardware sockets, and provides a 10/100M Ethernet data link layer (MAC) and physical layer (PHY), offering a more convenient internet connection solution for embedded systems. It meets the wired network access requirements in actual production environments.

Features

- 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

- 1 x Atom-Lite
- 1 x Atomic PoE Base
- 1 x USB Type-C Cable (20cm)
- 1 x M2 Hex Wrench
- 1 x M2x8 Screw

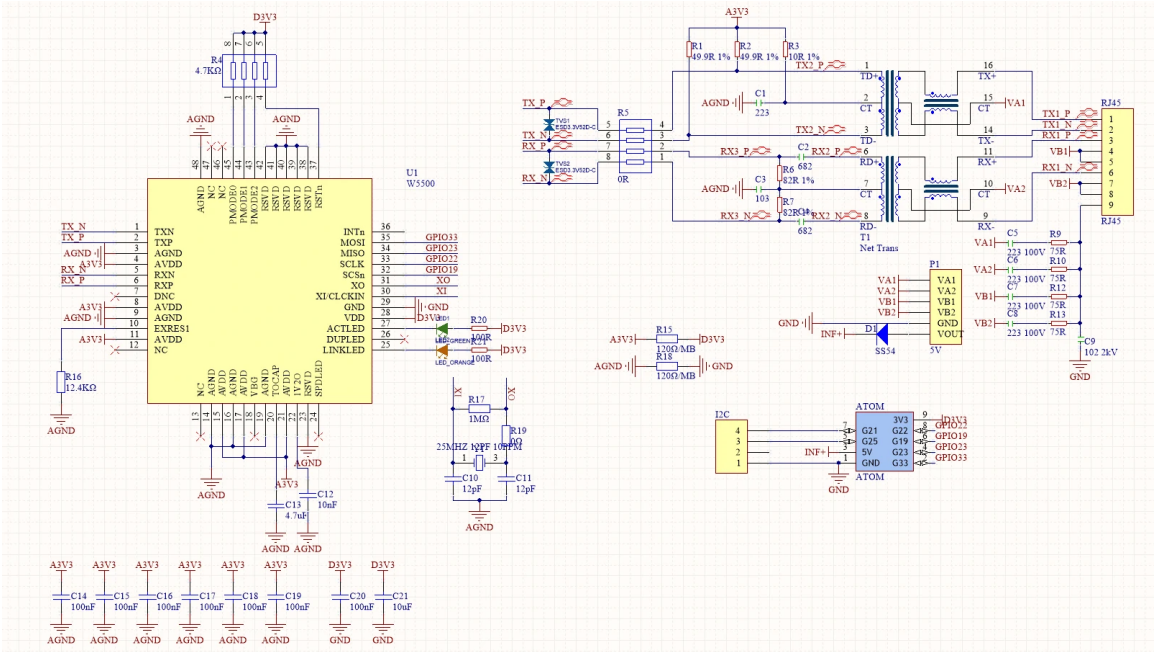
Applications

- Remote control
- Wired network access

Specifications

Specification	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 Standard	IEEE802.3 AF
Operating Temperature	0 ~ 40°C
Product Size	24 x 48 x 18mm
Product Weight	22g
Package Size	54 x 54 x 20mm
Gross Weight	44g

Schematics



PinMap

PIN	LEFT	RIGHT	PIN
3V3		1	
SPI_CLK	2	3	
CS	4	5	5V
SPI_MISO	6	7	GND
SPI_MOSI	8	9	

Atom	G22	G19	G23	G33
Atom PoE	CLK	CS	MISO	MOSI

Datasheets

W5500

Softwares

Arduino

Atom PoE Test Example

UiFlow1

| EasyLoader

Easyloader	Download Link	Remarks
Atom PoE Easyloader	download	/

| Video

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

[ATOM_PoE.mp4](#)