PoESP32

SKU:U138



Description

PoESP32 Unit is an ESP32 lan Ethernet Unit supports PoE (Power Over Ethernet). This module adopts ESP32 as built-in MCU, and IP101G as physical layer transceiver. Default firmware with ESP-AT , supports TCP,MQTT, HTTP protocols. It can connect to server with simple AT commands through serial port, achieving data transmission and remote control functions. This module simplify wiring and saves labor cost with PoE power supply, and It reserves the ability for secondary development to meet your requirement.

Product Features

- Embedded ESP32 main controller
- PHY solution:
 - Transceiver model IP101G
 - IEEE 802.3/802.3u standard

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- Etnernet Interrace.
 - PoE standard: PoE IEEE802.3 AF / Support maximum load power 6W
 - RJ45 network port 10/100Mbps
- Communication / download interface:
 - Default firmware is ESP-AT / Support secondary development to implement TCP
 Client/HTTP/CoAP and other protocols
 - o Programmable / support secondary development, reserve program download interface
- o Power supply.
 - HY2.0-4P interface 5V DC power supply
 - PoE power supply (PoE IEEE802.3 AF)
- o Development method.
 - o AT command, UART: 9600bps default
 - o Development Platform: UIFlow(coming soon), Arduino, ESP-IDF

Included

- 1x UNIT PoESP32
- 1x HY2.0-4P Cable (20cm)

Applications

- Ethernet Controller
- TCP Client data passthrough

Specification

Specifications Parameters

ESP32-WROOM-	240MHz dual core, 600 DMIPS, 520KB SRAM (without integrated	
32U	3D antenna, does not support WiFi wireless function)	
Flash	4MB	
PHY	IP101G: IEEE 802.3/802.3u	
MAC-PHY	RMII	
Interface Type		
РоЕ	PoE IEEE802.3 AF Specifications / Maximum Power 6W / Voltage DC	
Specifications	37-57V	
Ethernet		
Interface	RJ45 10/100Mbps	
Specifications		
Reserved	1x HY2.0-4P interface, 1x program download interface	
interface		
Communication	UART 9600bps 8N1 AT command control	
interface		
Communication	3.3V	
logic level	5.5 V	
Net Weight	26.2g	

Gross Weight	32.8g
Product size	72 * 26 * 19.2mm
Packing Size	75 * 36 * 20.5mm









PinMap

• IP101G (ETH_ADDR = 1)

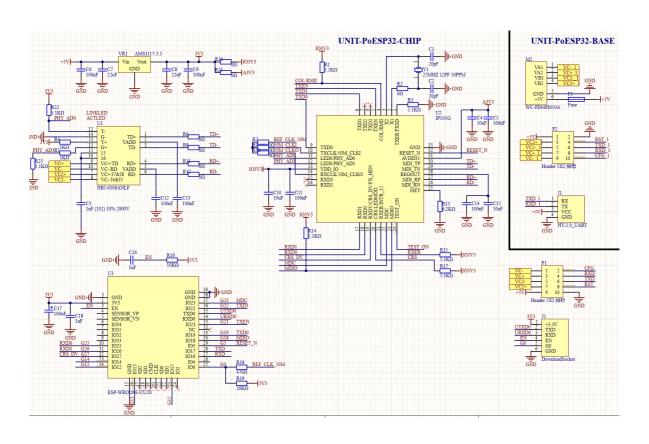
IPG101G (RMII PHY)	ESP32
TX_EN	G21
TX0	G19
TX1	G22
RX0	G25
RX1	G26
CRS_DV	G27

IPG101G (SMI)	ESP32
MDC	G23
MDIO	G18

o HY2.0-4P

PoESP32	RXD	TXD
M5CORE	G16	G17

Schematic



Dalatad Link

Related LITIK

Datasheet

- o ESP32-WROOM-32U/D
- IP101G

Example

Arduino

- TCP Client
 - PoESP32 with M5Core TCP Client
 - PoESP32 with M5Core2 TCP Client
 - PoESP32 with M5Atom TCP Client
 - PoESP32 with M5StickC TCP Client
 - PoESP32 with M5StickC Plus TCP Client
- HTTP Client
 - PoESP32 with M5Core MQTT Client
 - PoESP32 with M5Core2 MQTT Client
 - PoESP32 with M5Atom MQTT Client
 - PoESP32 with M5StickC MOTT Client
 - PoESP32 with M5StickC Plus MQTT Client
- MQTT Client
 - PoESP32 with M5Core MQTT Client
 - PoESP32 with M5Core2 MQTT Client
 - PoESP32 with M5Atom MOTT Client
 - PoESP32 with M5StickC MOTT Client
 - PoESP32 with M5StickC Plus MQTT Client

Firmware

- ESP-AT Github
- ESP-AT Documentation

Video

• POESP32 Service quality evaluation terminal

POESP32服务质量评价终端en(2).mp4