

Interfacing of Ethernet with ESP32

Hardware components:

1. ESP32 DOIT-DEVKIT-v1
2. ENC28J60 module
3. Jumper wires
4. LAN cable

Software components:

Environment: Platformio

Framework: Arduino Framework

Pin Mapping:

ENC28J60	ESP32
VCC	Vin(5v)
GND	GND
SCLK (SCK)	GPIO18
MISO (SO)	GPIO19
MOSI (ST)	GPIO23
CS	GPIO5

Libraries Used:

- 1- UIPEthernet (<https://github.com/UIPEthernet/UIPEthernet>)
- 2- PubSubClient

Testing:

MQTT Broker: test.mosquitto.org (public broker), broker.hivemq.com (public broker)

MQTT Port: 1883