

# Ethernet

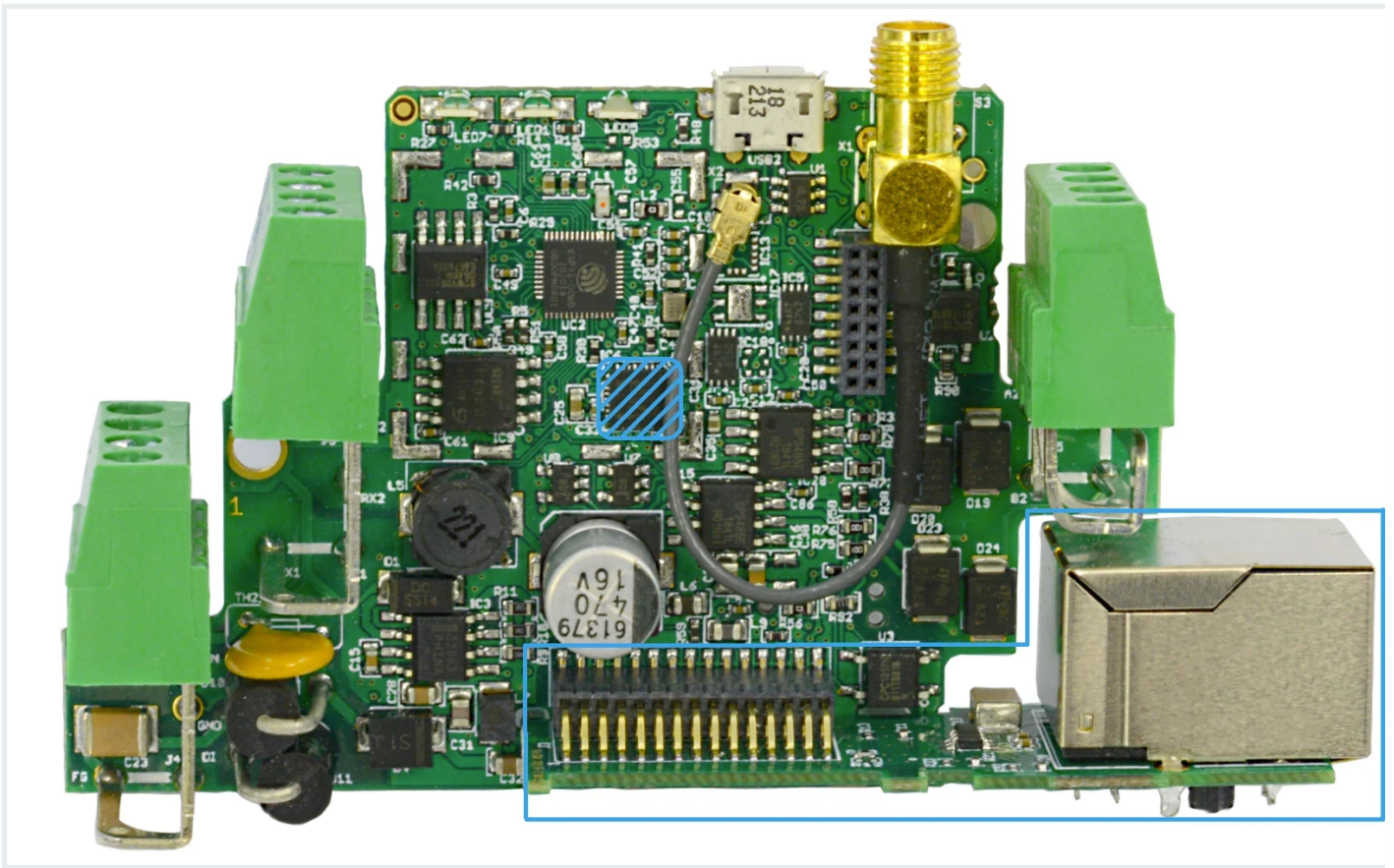
## ESP32 Open IoT and IIoT Gateways (P01 & P02)

Link to repositories:

- [C](#)
- [MicroPython](#)

## Connection

ETHERNET adapter should be connected to WLAN with a RJ45 cable.



## Description

This example demonstrates basic usage of ETHERNET driver. After flashing the CGE2 will try to obtain an IP address in a network it will be connected to. Once it will be done it will be possible to ping the device in this network. This example is a good base for developing own network solutions.

## Console output

```
I (396) esp_eth.netif.netif_glue: b4:e6:2d:fb:b8:88
I (396) esp_eth.netif.netif_glue: ethernet attached to netif
I (2696) main_task: Returned from app_main()
I (2696) ethernet_ping: Ethernet Started
I (2696) ethernet_ping: Ethernet Link Up
I (2696) ethernet_ping: Ethernet HW Addr b4:e6:2d:fb:b8:88
I (4196) esp_netif_handlers: eth ip: 192.168.102.146, mask: 255.255.255.0, gw: 192.168.102.1
I (4196) ethernet_ping: Ethernet Got IP Address
I (4196) ethernet_ping: ~~~~~~
I (4196) ethernet_ping: ETHIP:192.168.102.146
I (4206) ethernet_ping: ETHMASK:255.255.255.0
I (4206) ethernet_ping: ETHGW:192.168.102.1
I (4216) ethernet_ping: ~~~~~~
```

```
jango@jango-ThinkCentre-M710q: ~  
jango@jango-ThinkCentre-M710q:~$ ping 192.168.102.146  
PING 192.168.102.146 (192.168.102.146) 56(84) bytes of data.  
64 bytes from 192.168.102.146: icmp_seq=1 ttl=64 time=0.582 ms  
64 bytes from 192.168.102.146: icmp_seq=2 ttl=64 time=0.317 ms  
64 bytes from 192.168.102.146: icmp_seq=3 ttl=64 time=0.319 ms  
64 bytes from 192.168.102.146: icmp_seq=4 ttl=64 time=0.317 ms  
64 bytes from 192.168.102.146: icmp_seq=5 ttl=64 time=0.319 ms  
64 bytes from 192.168.102.146: icmp_seq=6 ttl=64 time=0.299 ms  
█
```

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