

# 14. Community Meeting Arduino ESP32 Core

25/01/2024





# Content

- *Meeting Rules*
- **Development Updates & Plans**
  - version 2.X - updates and planning
  - version 3.0.0 - updates and planning
  - ESP32-P4 support status update
  - PM improvements
- **Open Discussion**

# Community Meeting Purpose



BRING MORE  
TRANSPARENCY



COLLECT VALUABLE  
FEEDBACK FOR  
DEVELOPMENT



IMPROVE USER  
EXPERIENCE



ANSWER AND  
ADDRESS COMMUNITY  
REQUESTS

## ***Meeting rules***

- *Polite and friendly environment*
- *Consider different knowledge levels of the participants*
- *If you have any comments or questions, don't hesitate to ask*

## Development Updates – 2.x version (IDF 4.4.x)

- Oct 4 – [v2.0.14](#)
  - Update ESP-IDF to v4.4.6 (with I2S Rollback) [#8701](#)
  - WiFiClient - Properly initialize and check `_rxBuffer` [#8699](#)
- v2.0.15
  - awaiting ESP-IDF v4.4.7 release
  - [Release board](#)
- 2.X version is in maintenance period

# Development Updates – v3.0.0

- Oct 6 - [3.0.0-Alpha](#)
  - development release ([installation Guide](#))

**Major changes:**

  - based on ESP-IDF v5.1
  - initial support for ESP32-H2 & C6
  - Peripheral Manager ([feature description](#))
  - new I2S library
  - SPI Ethernet support (w5500)
  - Wake Word and Command Recognition (ESP32-S3 only)
- Oct 12 – [3.0.0-Alpha2](#)
  - Fixes installation on ArduinoIDE 1.x and RV toolchain on Windows
- Dec 5 – [3.0.0-Alpha3](#)
  - Add ESP32-C2 support (by Community)
  - [I2S][SR] Add new I2S library and Sound Recognition support
  - Zigbee protocol support
  - Fixes Rainmaker to be a Managed Component
  - Peripherals fixes (UART, RMT, I2C, ADC)


# Migration – v3.0.0

- Breaking changes in APIs of 3.0.0 Release:
  - ADC
  - BLE
  - Hall Sensor (not supported)
  - I2S
  - LEDC
  - RMT
  - SigmaDelta
  - Timer
  - UART (HardwareSerial)

[- Migration Guide from 2.x to 3.x](#)

## Collecting Feedback:

- 3.0.0 version Migration related issues [#8796](#)
- Support of ESP32-C6 [#7713](#)
- Support of ESP32-H2 [#6854](#)



# Planning – v3.0.0

- 3.0.0-RC1 (first release candidate)
  - in progress

## **Added:**

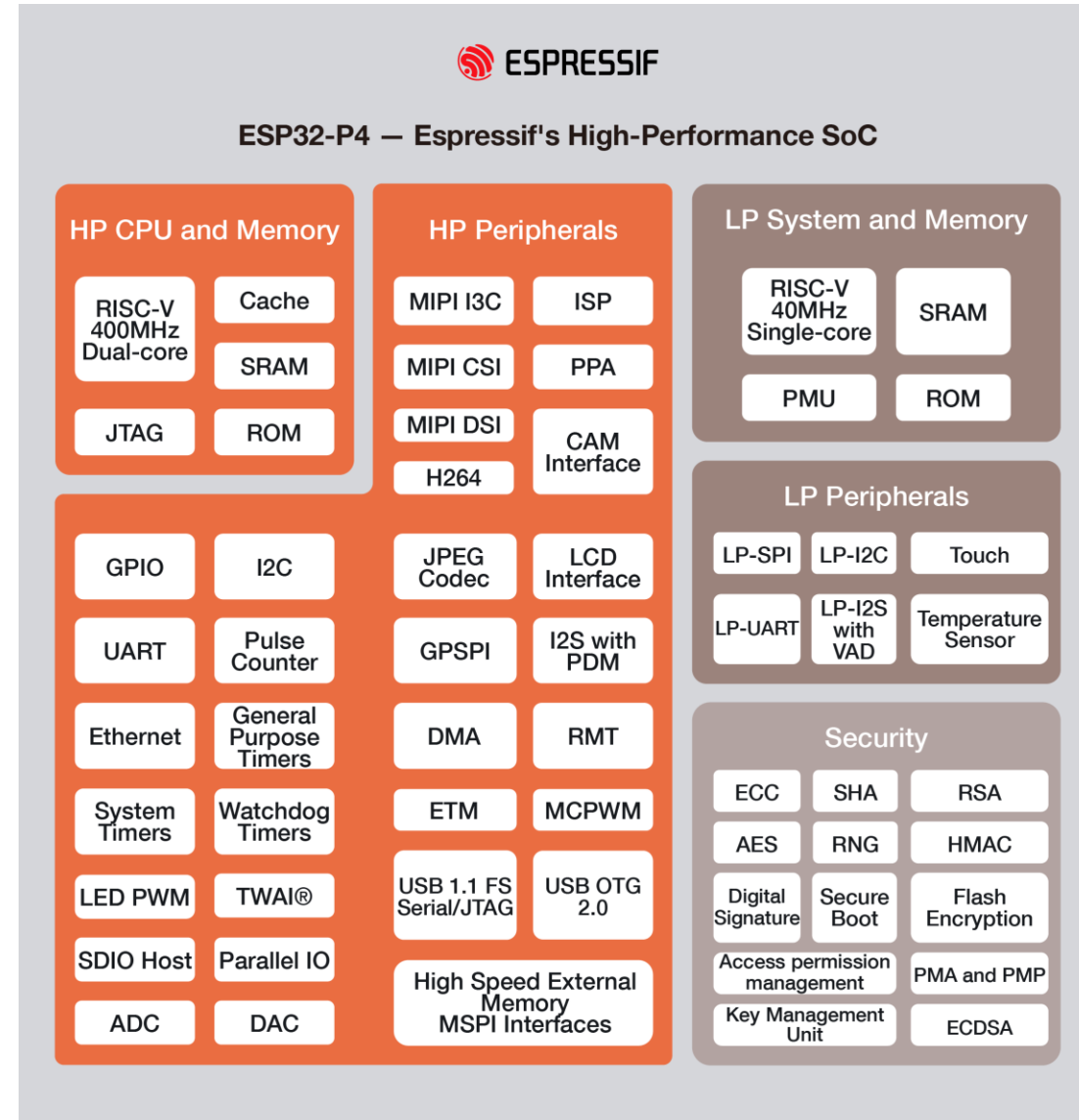
- Ipv6 support [#9016](#)
- 3.0.0 Alpha2 :: Serial + RMT doesn't work. [#8809](#)
- [Full list of changes](#)

## **In progress:**

- 3.0.0 Network Refactoring [#8760](#)
- Pull Requests clean-up

# ESP32-P4 Planning

- [Official announcement](#)
- ESP-IDF v5.2 - will include ESP32-P4 preview support  
- latest pre-release [v5.2-beta2](#)
- **Arduino Core ESP32**
  - HW delivered
  - support tracking issue + features list will be done in upcoming weeks







# Project Management improvements

- **Roadmap document**
  - overview of main features of upcoming releases at one document
  - alignment with ESP-IDF release cycle
  
- **Release support policy**
  - shaping
  - service/maintenance period for releases
  - bring more transparency for Users
  - [ESP-IDF support release policy](#)

# Open Discussion

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## **Next Community Meeting Invitation**

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- Thursday – 28.03.2024 at 4 pm (GMT+1 time zone)



**Thank you !**

