

ESP32 Formats and Communication

Updates

Software versions listed in Table 1-10.

The latest Arduino IDE software is version 2.2.1.

www.arduino.cc/en/software

The latest *esp32* Boards Manager is version v2.0.14.

github.com/espressif/arduino-esp32/releases

Chapter 2 I2S Audio

When playing internet radio (Listing 2-6) or MP3 files (Listing 2-9) with the *M5Core2 0.1.3* and the *Audio* libraries, the sound quality is fine. However, with the *M5Core2 0.1.4* or *M5Core2 0.1.5* libraries, the audio plays at a "slow speed".

The "slow speed" problem, for the *M5Core2 0.1.7* library, is resolved by replacing the instructions:

`M5.begin(true, true, true, true)` in Listing 2-6 with

`M5.begin(true, true, true, true, kMBusModeOutput, false)` or replacing

`M5.begin()` in Listing 2-9 with

`M5.begin(true, true, true, false, kMBusModeOutput, false).`

The impact of the changes is to set the *SpeakerEnable* variable to *false*, as the default `M5.begin` parameters are:

```
bool LCDEnable = true           // LCD screen on
bool SDEnable = true           // SD card on
bool SerialEnable = true       // Serial display on
bool I2CEnable = false         // I2C communication off
mbus_mode_t mode = kMBusModeOutput // power option
bool SpeakerEnable = true      // Speaker Enable on
```

with the power option equal to 0 or 1 when the M5Stack Core2 is powered by USB/battery or by outside input, respectively.

Chapter 9 MQTT

Cayenne (developers.mydevices.com) announced that Cayenne MQTT broker will be discontinued in September 2023 (community.mydevices.com/t/end-of-life-announcement-for-cayenne/18926). Chapter 9 *MQTT* has been updated with the Blynk, Arduino IoT Cloud and Adafruit IO MQTT broker services. The updated Chapter and accompanying sketches are included in the **Chapter 9_NEW_V2** folder on GitHub (github.com/Apress/ESP32-Formats-and-Communication/tree/main/Chapter9_NEW_V2).

Corrections

Despite repeatedly checking the page proofs, some typos may have persisted.

If you find typos, then please either email *esp32ndc@gmail.com* or use *GitHub Issues* to log the typo or other issues.

Page 88 last – 5 line	Change expression to $(A > B) \text{ ? } C : D$ by inserting a ?
Page 367 Line 10	Change <code>SCTpin = 37</code> to <code>SCTpin = 36</code> (as in Figure 9-7)
Page 395 Line 9	Change comment to "Clear LCD screen"

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