

# Electronics Projects with the ESP8266 and ESP32

## Updates

**Listing 1-3** Radio station URLs constantly change. URLs at March 2022 are:

"1940sradiol.co.uk:8100/stream/1/",	// 1940s music
"irmedia.streamabc.net/irm-bbrberlinclub-mp3-128-4574783",	// Berlin
"media-ice.musicradio.com/ClassicFM",	// Classic FM
"stream.live.vc.bbcmedia.co.uk/bbc_radio_fourfm",	// BBC Radio4
"vpr.streamguys1.com/vpr64.mp3",	// Vermont
"stream.radiometro.no/metro128.mp3",	// Trondheim
"radio.virginradio.co.uk/stream"	// Virgin

**Listing5-3** is based on version 2.8.0 of the *IRremote* library for the ESP32 microcontroller.

**Listing5-3\_NEW** is based on version 3.0.2 of the *IRremote* library.

Library version 3.0.2 instruction `IrReceiver.begin(IRpin)` replaces library 2.8.0 instructions `IRrecv irrecv(IRpin), decode_results reading` and `irrecv.enableIRIn()`. The library version 3.0.2 instruction `if(IrReceiver.decode())` replaces the instruction `if(irrecv.decode(&reading))`.

Received data is accessed in library version 3.0.2 from `IrReceiver.decodedIRData` (protocol, command and numberOfBits), rather than from `reading` (decode\_type, value and bits) in library version 2.8.0.

**ESP32 analog input** (pages 632-633) The GPIO pins 0, 2, 4, 12, 13, 14, 15, 25, 26 and 27 are also available for analog input, but not when Wi-Fi is in use.

**Listing 21-3** The `analogAttenuation(attenuation)` instruction, which sets the attenuation of all analog input pins, replaces the `analogSetPinAttenuation(ADCpin, attenuation)` instruction.

**ESP-MESH** protocol could be included in Chapter 14: *ESP-NOW and LoRa communication*, but the book already covered many topics and a line had to be drawn somewhere.

Details of ESP-MESH with sketches are included in the folder *ESP-MESH*.

## Corrections

Despite repeatedly checking the page proofs, some typos persevered.

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

Page 28 Figure 2-1                      change TX to RX and change RX to TX

Page 96 text first line                change 13, 14 and 15 to S0, S1 and S2

Page 96 text line 4	change 14 and 15 to S1 and S2
Page 165 lines 1 and 2	change the order of the two lines to: <pre>WiFi.softAPConfig(local_ip, gateway, subnet); WiFi.softAP(ssidAP, passwordAP);</pre>
Page 172 text line 7	change R" (== and ==) " to R"== ( and ) =="
Page 174 lines 1 and 3	change Listing 7-2 to Listing 7-3
Page 175 line 1	change variable to variab
Page 207 text line 1	delete "or app"
Page 233 line 11	change servoFb.write(N) to servoFB.write(N)
Page 505 last line	change resistor R1 is R2× to resistor R2 is R1×
Page 588 listing line 3	in the comment, change Wi-FI to Wi-Fi
Page 599 text line 3	change Listing 20-2 to Listing20-3
Page 656 (last-7) line	change 0x2A63 to 0x2A6E

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