

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.

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 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: <code>WiFi.softAPConfig(local_ip, gateway, subnet);</code>

Page 172 text line 7	<code>WiFi.softAP(ssidAP, passwordAP);</code> change <code>R" (== and ==) "</code> to <code>R"== (and) =="</code>
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 <code>servoFb.write(N)</code> to <code>servoFB.write(N)</code>
Page 505 last line	change resistor R1 is $R2 \times$ to resistor R2 is $R1 \times$
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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March 2022