

Bill of Materials: Flipper Zero ESP NRF I2S HCSR04 GPS MultiBoard.fzz

Thursday, May 25 2023, 23:12:55

Assembly List

Label	MN (manufacturer number)	MPN (manufacturer part number)	Part Type	Properties
100nF			Capacitor	package 1206; variant 1206
10uF			Capacitor	package 1206; variant 1206
2.8" Touch Screen TFT ILI9341			2.8" SPI TFT Module	variant variant 1; pins 18; chip label LCD; part # MSP2807
3.3v			DIP Switch 4 Position	package dipswitch-04; variant variant 2; channels 4
3.3v I2C			Screw terminal - 4 pins	package THT; pins 4; pin spacing 0.1in (2.54mm); hole size 1.0mm,0.508mm
5v			DIP Switch 4 Position	package dipswitch-04; variant variant 2; channels 4
< TX/RX EN			DIP SWITCH	package dipswitch-02; channels 1
Adafruit GPS 746			Adafruit Ultimate GPS v3	variant variant 1; part # Adafruit #746
CS SELECT			Solder Jumper	package sj_2w; variant w
Deauth JMP >			Generic male header - 3 pins	package THT; variant variant 1; row single; form ♂ (male); pins 3; hole size 1.0mm,0.508mm; pin spacing 0.1in (2.54mm)
ESP32S 30-Pin			DOIT Esp32 DevKit v1 (30 pins long, 11 pins width)	variant 1; pins 30; part # ESP32S-PIN30
ESP8266 Deauth			DIP Switch 4 Position	package dipswitch-04; variant variant 2; channels 4

Label	MN (manufacturer number)	MPN (manufacturer part number)	Part Type	Properties
FZLEFT			Generic double row male header - 16 pins	package THT; row double; form ♂ (male); pins 16; hole size 1.0mm,0.508mm; pin spacing 0.1in (2.54mm)
FZRIGHT			Generic double row male header - 20 pins	package THT; row double; form ♂ (male); pins 20; hole size 1.0mm,0.508mm; pin spacing 0.1in (2.54mm)
GND			Generic double row male header - 6 pins	package THT; row double; form ♂ (male); pins 6; hole size 1.0mm,0.508mm; pin spacing 0.1in (2.54mm)
HC-SR04			Generic male header - 4 pins	package THT; row single; form ♂ (male); pins 4; hole size 1.0mm,0.508mm; pin spacing 0.1in (2.54mm)
LED			Red (633nm) LED	package 1206 [SMD]; color Red (633nm)
LED			Red (633nm) LED	package 1206 [SMD]; color Red (633nm)
LED			Red (633nm) LED	package 1206 [SMD]; color Red (633nm)
microSD			SparkFun - microSD Transflash	variant BOB-00544
microSD1			SparkFun - microSD Transflash	variant BOB-00544
NRF24			NRF24L01+ PA LNA	variant variant 2; chip NRF24L01+ PA LNA
RX JMP			Solder Jumper	package sj_2; variant t
RΩ			220Ω Resistor	tolerance ±5%; resistance 220Ω; package 1206 [SMD]
RΩ			220Ω Resistor	tolerance ±5%; resistance 220Ω; package 1206 [SMD]
RΩ			220Ω Resistor	tolerance ±5%; resistance 220Ω; package 1206 [SMD]
Screen Support			Generic male header - 14 pins	package THT; row single; form ♂ (male); pins 14; hole size 1.0mm,0.508mm; pin spacing 0.1in (2.54mm)
SW1			DIP SWITCH	package dipswitch-02; channels 1

Label	MN (manufacturer number)	MPN (manufacturer part number)	Part Type	Properties
TFT 3.3v			Generic male header - 3 pins	package THT; variant variant 1; row single; form ♂ (male); pins 3; hole size 1.0mm,0.508mm; pin spacing 0.1in (2.54mm)
TX JMP			Solder Jumper	package sj_2; variant t
WeMos D1 Mini			WeMos D1 Mini	variant variant 1; cpu ESP-8266EX; headers female above

Shopping List

Amount	MN (manufacturer number)	MPN (manufacturer part number)	Part Type	Properties
2			Capacitor	package 1206; variant 1206
1			2.8" SPI TFT Module	variant variant 1; pins 18; chip label LCD; part # MSP2807
3			DIP Switch 4 Position	package dipswitch-04; variant variant 2; channels 4
1			Screw terminal - 4 pins	package THT; pins 4; pin spacing 0.1in (2.54mm); hole size 1.0mm,0.508mm
2			DIP SWITCH	package dipswitch-02; channels 1
1			Adafruit Ultimate GPS v3	variant variant 1; part # Adafruit #746
1			Solder Jumper	package sj_2w; variant w
2			Generic male header - 3 pins	package THT; variant variant 1; row single; form ♂ (male); pins 3; hole size 1.0mm,0.508mm; pin spacing 0.1in (2.54mm)
1			DOIT Esp32 DevKit v1 (30 pins long, 11 pins width)	variant 1; pins 30; part # ESP32S-PIN30
1			Generic double row male header - 16 pins	package THT; row double; form ♂ (male); pins 16; hole size 1.0mm,0.508mm; pin spacing 0.1in (2.54mm)

Amount	MN (manufacturer number)	MPN (manufacturer part number)	Part Type	Properties
1			Generic double row male header - 20 pins	package THT; row double; form ♂ (male); pins 20; hole size 1.0mm,0.508mm; pin spacing 0.1in (2.54mm)
1			Generic double row male header - 6 pins	package THT; row double; form ♂ (male); pins 6; hole size 1.0mm,0.508mm; pin spacing 0.1in (2.54mm)
1			Generic male header - 4 pins	package THT; row single; form ♂ (male); pins 4; hole size 1.0mm,0.508mm; pin spacing 0.1in (2.54mm)
3			Red (633nm) LED	package 1206 [SMD]; color Red (633nm)
2			SparkFun - microSD Transflash	variant BOB-00544
1			NRF24L01+ PA LNA	variant variant 2; chip NRF24L01+ PA LNA
2			Solder Jumper	package sj_2; variant t
3			220Ω Resistor	tolerance ±5%; resistance 220Ω; package 1206 [SMD]
1			Generic male header - 14 pins	package THT; row single; form ♂ (male); pins 14; hole size 1.0mm,0.508mm; pin spacing 0.1in (2.54mm)
1			WeMos D1 Mini	variant variant 1; cpu ESP-8266EX; headers female above

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