

BOM CPU Module

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|--------|---------------------|---------------|-------------|-------|--------|
| U1 | EP4CE6E22C8 | TQFP-144 | C1 | 10uF | Type B |
| U2 | Z84C00x0FEC | TQFP-44 | C2,3 | 0,1uF | 0805 |
| U3 | MP25P16(W25Q16) | SOIC-8/205mil | C4 | 3n3 | 0805 |
| U4 | CY62167ELL(E(D)V30) | TSOP-48 | PC1,6,20,25 | 100uF | Type B |
| U5 | ATmega8-16AC | TQFP-32 | PC2-5 | 0,1uF | 0805 |
| U6 | 74HC245 | TSSOP-20 | PC7-19 | 0,1uF | 0805 |
| U7 | 1117-33 | SOT-223-4 | PC21-24 | 0,1uF | 0805 |
| U8 | 1117-25 | SOT-223-4 | PC26-30 | 0,1uF | 0805 |
| U9 | 1117-12 | SOT-223-4 | | | |
| U10 | LM311 | SOIC-8/150mil | MR1-5 | 10k | 4x0603 |
| | | | | | |
| Y1 | 50MHz active | 7050 | R1 | 10k | 0805 |
| Y2 | 16MHz passive | 5032 | R2 | 47k | 0805 |
| | | | R3 | 27 | 0805 |
| Xr1 | MiniDIN 6 | PS/2 | R4-8 | 10k | 0805 |
| Xr2 | PJ-313D | 3,5mm | R9 | 330 | 0805 |
| Xr3 | PJ-313D | 3,5mm | R10,12,14 | 510 | 0805 |
| Xr4 | D-SUB DB15F MID | VGA | R11,13,15 | 220 | 0805 |
| | | | R16,17 | 100 | 0805 |
| AC1,2 | 10uF | 1206 | R18-20 | 2k4 | 0805 |
| VPC1 | 100uF | Type B | R21 | 10k | 0805 |
| VPC2,3 | 0.1uF | 0805 | R22 | 1k | 0805 |
| | | | R23 | 2k2 | 0805 |
| Q1,2 | IRLML2402 | SOT-23 | R24 | 220 | 0805 |
| Q3,4 | BSR19A | SOT-23 | R25,26 | 1k | 0805 |
| Q5 | BSR20A | SOT-23 | R27-32 | 10k | 0805 |
| | | | R33 | 33k | 0805 |
| J1 | Molex-0492250821 | MicroSD | R34 | 10k | 0805 |
| J2 | MicroUSB B 5pin SMT | Power | R35 | 1M | 0805 |
| J3 | PBD-16 | AYX-32 | R36,37 | 1k | 0805 |
| J4 | PBD-14 | JOY/LED | | | |
| J5 | PBS-03 | Audio | D1 | Red | 0603 |
| J6 | PBS-03 | 5V | | | |
| J7 | PLD-06 | AVR Jtag | F1 | 5V 1A | 1812 |
| J8 | PLD-10 | FPGA Jtag | | | |
| | | | L1 | 27uH | 0806 |

BOM Sound & WiFi

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|--------|---------------------|-----------|--------------|-----------|---------|
| U1 | STM32F405RGT | TQFP-64 | AC1,2 | 1n | 0805 |
| U2 | 74LVC2G04 | SOT23-6 | AC3,4 | 2,2uF | 0805 |
| U3 | 74LVC1G08 | SOT-353 | C1 | 0,1uF | 0805 |
| U4 | 74LVC1G32 | SOT-353 | C2,3 | 27p | 0805 |
| U5 | 74HC595 | TSSOP-16 | PC1,4,10 | 100uF | Type B |
| U6 | 74HC165 | TSSOP-16 | PC2,3 | 0,1uF | 0805 |
| U7 | CP2102 | QFN-28L | PC5-9 | 0,1uF | 0805 |
| U8,9 | 1117-33 | SOT-223-4 | PC11-14 | 0,1uF | 0805 |
| | | | | | |
| Y1 | 16MHz passive | 5032 | R1,3,5,6 | 47k | 0805 |
| | | | R2,7,8,15,16 | 100 | 0805 |
| Xr1 | MicroUSB B 5pin SMT | MicroSD | R4,9,10 | 1k | 0805 |
| Xr2 | DB9-M | Joy | R11,12 | 330 | 0805 |
| | | | R13,14 | 2k2 | 0805 |
| UC1,2 | 0,1uF | 0805 | R17,18 | 10k | 0805 |
| UR1 | 4k7 | 0805 | R19-21 | 33 | 0805 |
| | | | R22-26 | 1k | 0805 |
| Module | ESP-01F | Wi-Fi | | | |
| | | | D1-D5 | G,W,Y,B,R | 0603 |
| SW1,2 | TACT 6x6-5.5 EDGE | RESET/NMI | | | |
| | | | J3 | PLD-16 | AYX-32 |
| J1 | PLS-02R | STM_BOOT | J4 | PLD-14 | JOY/LED |
| J2 | PLS-02R | ESP_BOOT | J5 | PLS-03 | AUDIO |
| | | | J6 | PLS-03 | 5V |