ESP8266 Schematic

| | | | |
|---|---|---|---|
| GND | | | |
| R2 12K | C1 20pF | P1 26M | C2 20pF |

3V3

D1
R1 330R    LED0

D2
R3 330R    LED0

**P2 — Header 4X2**

| GND | 1 | 2 | TXD |
|-----|---|---|-----|
| IO2 | 3 | 4 | CH_PD |
| IO0 | 5 | 6 | RST |
| RXD | 7 | 8 | 3V3 |

3V3

RST

TXD
RXD

**U1 — ESP8266**

| Pin | Name | | Name | Pin |
|----|------|--|------|----|
| 1 | VDDA | | DVDD | 24 |
| 2 | LNA | | SD_DATA_1 | 23 D1 |
| 3 | VDD3P3 | | SD_DATA_0 | 22 D0 |
| 4 | VDD3P4 | | SD_CLK | 21 CLK |
| 5 | VDD_RTC | | SD_CMD | 20 CMD |
| 6 | TOUT | | SD_DATA_3 | 19 D3 |
| 7 | CHIP_EN | | SD_DATA_2 | 18 D2 |
| 8 | XPD_DCDC | | VDDPST | 17 3V3 |

C3 0.1uF
GND

R5 0R

P3
ANT

C4 5.6pF
C5 NC    C6 NC
GND

PD

Pins (left side top): 33 GND, 32 EXT_RSTB, 31 RES12K, 30 VDDA, 29 VDDD, 28 XTAL_IN, 27 XTAL_OUT, 26 U0TXD, 25 U0RXD

Pins (bottom): 9 MTMS, 10 MTDI, 11 VDDPST, 12 MTCK, 13 MTDO, 14 GPIO2, 15 GPIO0, 16 VDD

IO0
IO2

R4 200R    CLK

**U2 — 25Q408**

| CMD | 1 | /CS | VCC | 8 | 3V3 |
|-----|---|-----|-----|---|-----|
| D0 | 2 | DO | /HOLD | 7 | D2 |
| D3 | 3 | /WP | CLK | 6 | CLK |
| | 4 | GND | DIO | 5 | D1 |

GND

# Bill of Materials

**<Parameter Title not found>**

**Source Data From:**     **ESP8266.PrjPCB**

**Project:**     **ESP8266.PrjPCB**

**Variant:**     **None**

Creation Date: 2014/10/29     11:50:36

Print Date:     41941     41941.49357

| Footprint | Comment | LibRef | Designator | Description | Quantity |
|---|---|---|---|---|---|
| 0603 | 20pF | Cap | C1, C2 | Capacitor | 2 |
| 0603 | 0.1uF | Cap | C3 | Capacitor | 1 |
| 0603 | 5.6pF | Cap | C4 | Capacitor | 1 |
| 0603 | NC | Cap | C5, C6 | Capacitor | 2 |
| 0603 -LED | LED0 | LED0 | D1, D2 | Typical INFRARED GaAs LED | 2 |
| XTAL-3.2X2.5 | 26M | Header 2X2 | P1 | Header, 2-Pin, Dual row | 1 |
| HDR2X4 | Header 4X2 | Header 4X2 | P2 | Header, 4-Pin, Dual row | 1 |
| AN_1.6TOP | ANT | BNC | P3 | BNC Elbow Connector | 1 |
| 0603 | 330R | Res1 | R1, R3 | Resistor | 2 |
| 0603 | 12K | Res1 | R2 | Resistor | 1 |
| 0603 | 200R | Res1 | R4 | Resistor | 1 |
| 0603 | 0R | Res1 | R5 | Resistor | 1 |
| QFN32-0.5MM | ESP8266 | ESP8266 | U1 | | 1 |
| SOIC8 | 25Q408 | 25Q408 | U2 | | 1 |
| | | | | | 18 |

**Approved**     **Notes**