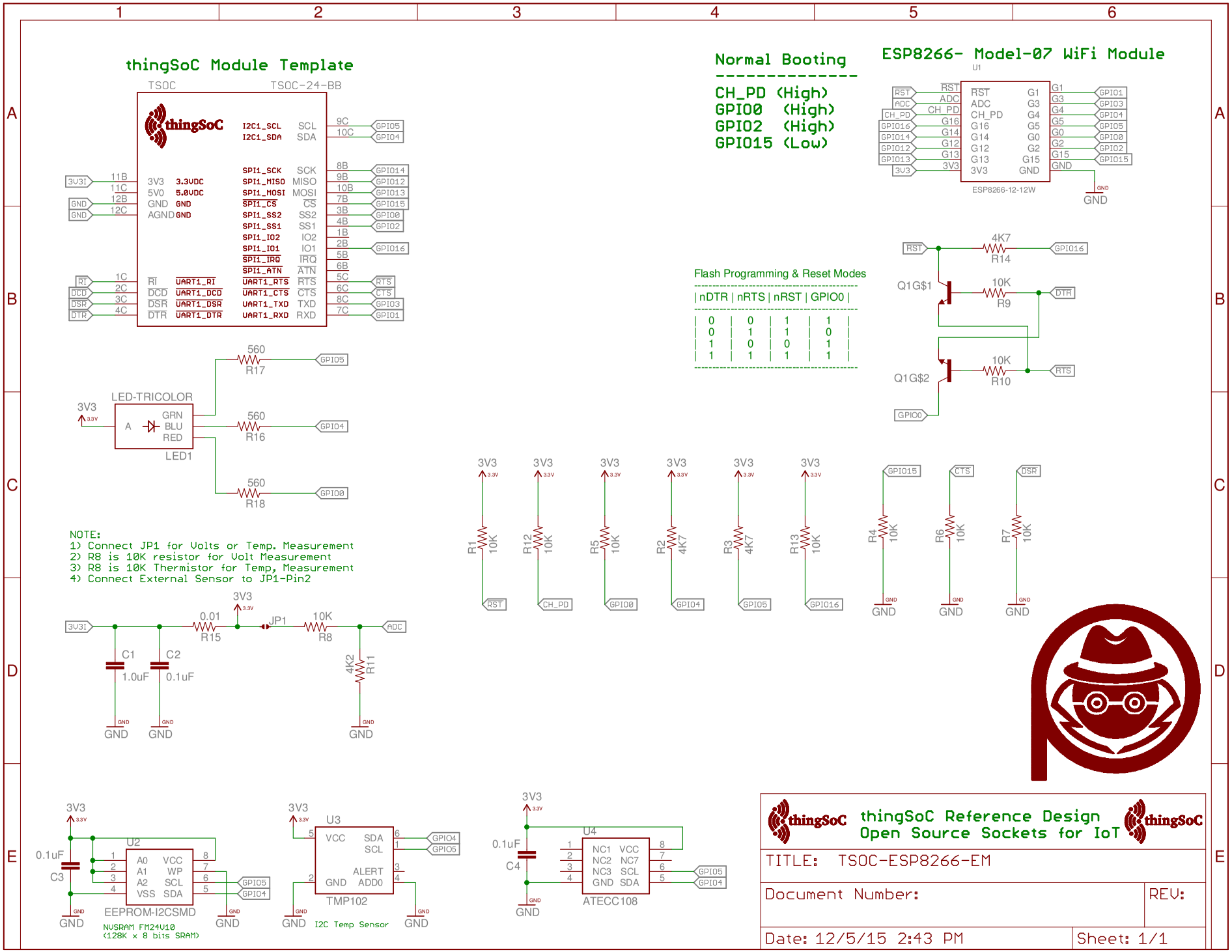
thingSoC Module Template
TSOC
TSOC-24-BB
thingSoC
I2C1_SCL SCL 9C GPIO5
I2C1_SDA SDA 10C GPIO4
3V3 11B 3V3 3.3VDC
5V0 11C 5V0 5.0VDC
GND 12B GND GND
AGND 12C GND GND
SPI1_SCK SCK 8B GPIO14
SPI1_MISO MISO 9B GPIO12
SPI1_MOSI MOSI 10B GPIO13
SPI1_CS CS 7B GPIO15
SPI1_SS2 SS2 3B GPIO0
SPI1_SS1 SS1 4B GPIO2
SPI1_IO2 IO2 1B
SPI1_IO1 IO1 2B GPIO16
SPI1_IRQ IRQ 5B
SPI1_ATN ATN 6B
RI 1C RI UART1_RI
DCD 2C DCD UART1_DCD
DSR 3C DSR UART1_DSR
DTR 4C DTR UART1_DTR
UART1_RTS RTS 5C RTS
UART1_CTS CTS 6C CTS
UART1_TXD TXD 8C GPIO3
UART1_RXD RXD 7C GPIO1
Normal Booting
CH_PD (High)
GPIO0 (High)
GPIO2 (High)
GPIO15 (Low)
ESP8266- Model-07 WiFi Module
U1
ESP8266-12-12W
Flash Programming & Reset Modes
nDTR	nRTS	nRST	GPIO0
0	0	1	1
0	1	1	0
1	0	0	1
1	1	1	1
4K7 R14
10K R9
10K R10
Q1G$1
Q1G$2
560 R17
560 R16
560 R18
LED-TRICOLOR
LED1
GRN
BLU
RED
NOTE:
1) Connect JP1 for Volts or Temp. Measurement
2) R8 is 10K resistor for Volt Measurement
3) R8 is 10K Thermistor for Temp, Measurement
4) Connect External Sensor to JP1-Pin2
0.01 R15
JP1
10K R8
C1 1.0uF
C2 0.1uF
4K2 R11
R1 10K
R12 10K
R5 10K
R2 4K7
R3 4K7
R13 10K
R4 10K
R6 10K
R7 10K
0.1uF C3
U2
EEPROM-I2CSMD
NVSRAM FM24V10
(128K x 8 bits SRAM)
U3
TMP102
I2C Temp Sensor
0.1uF C4
U4
ATECC108
thingSoC Reference Design
Open Source Sockets for IoT
TITLE: TSOC-ESP8266-EM
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