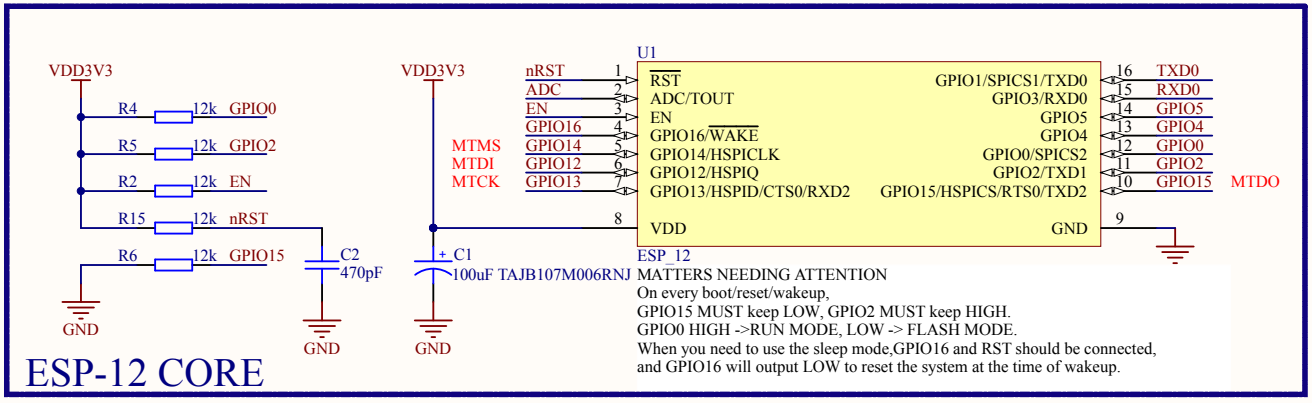
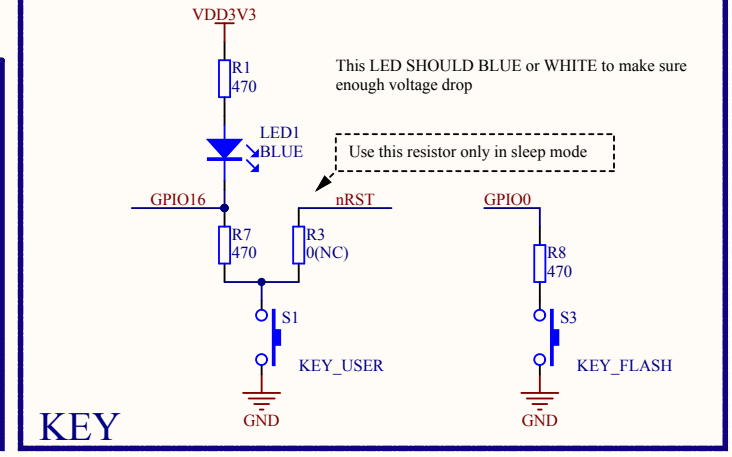
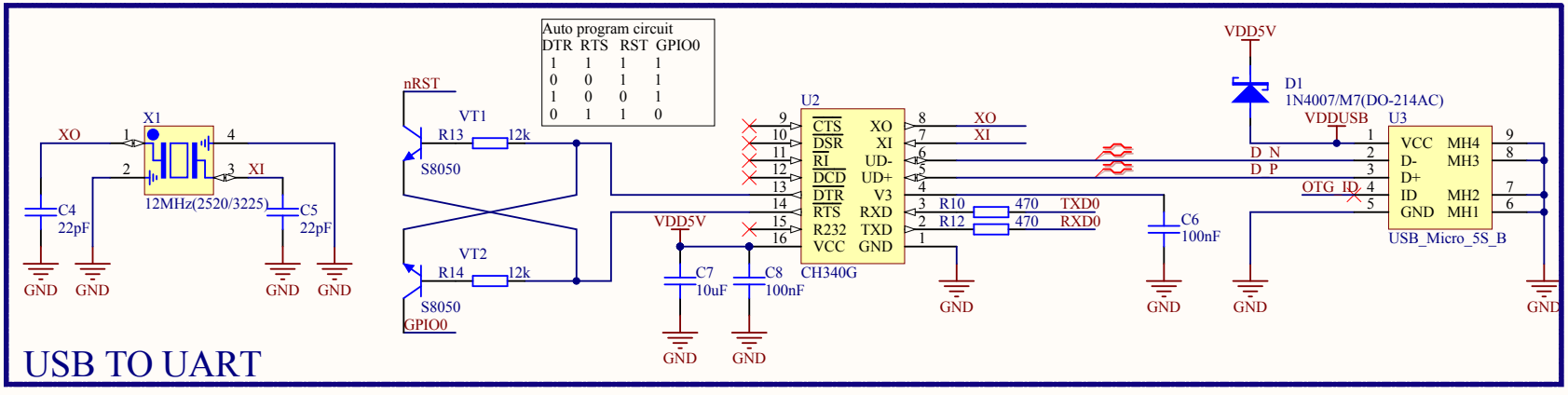
NODE MCU ESP12



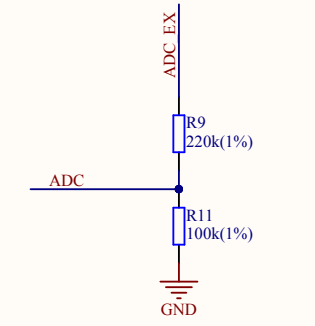
ESP-12 CORE



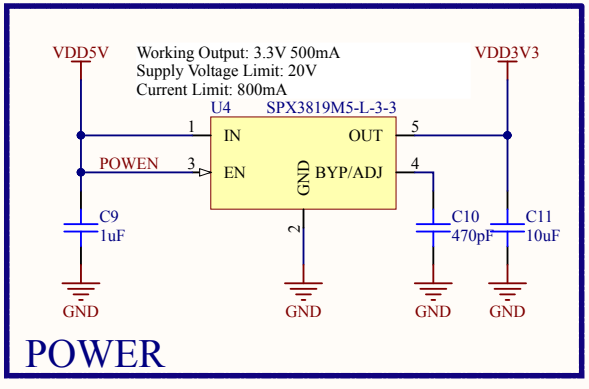
KEY



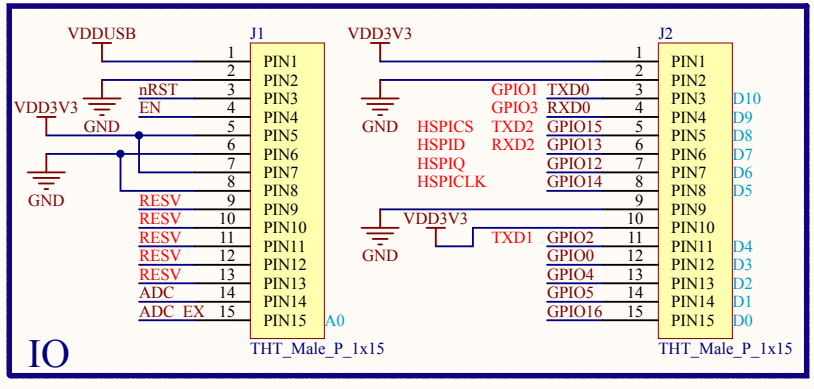
USB TO UART



ADC

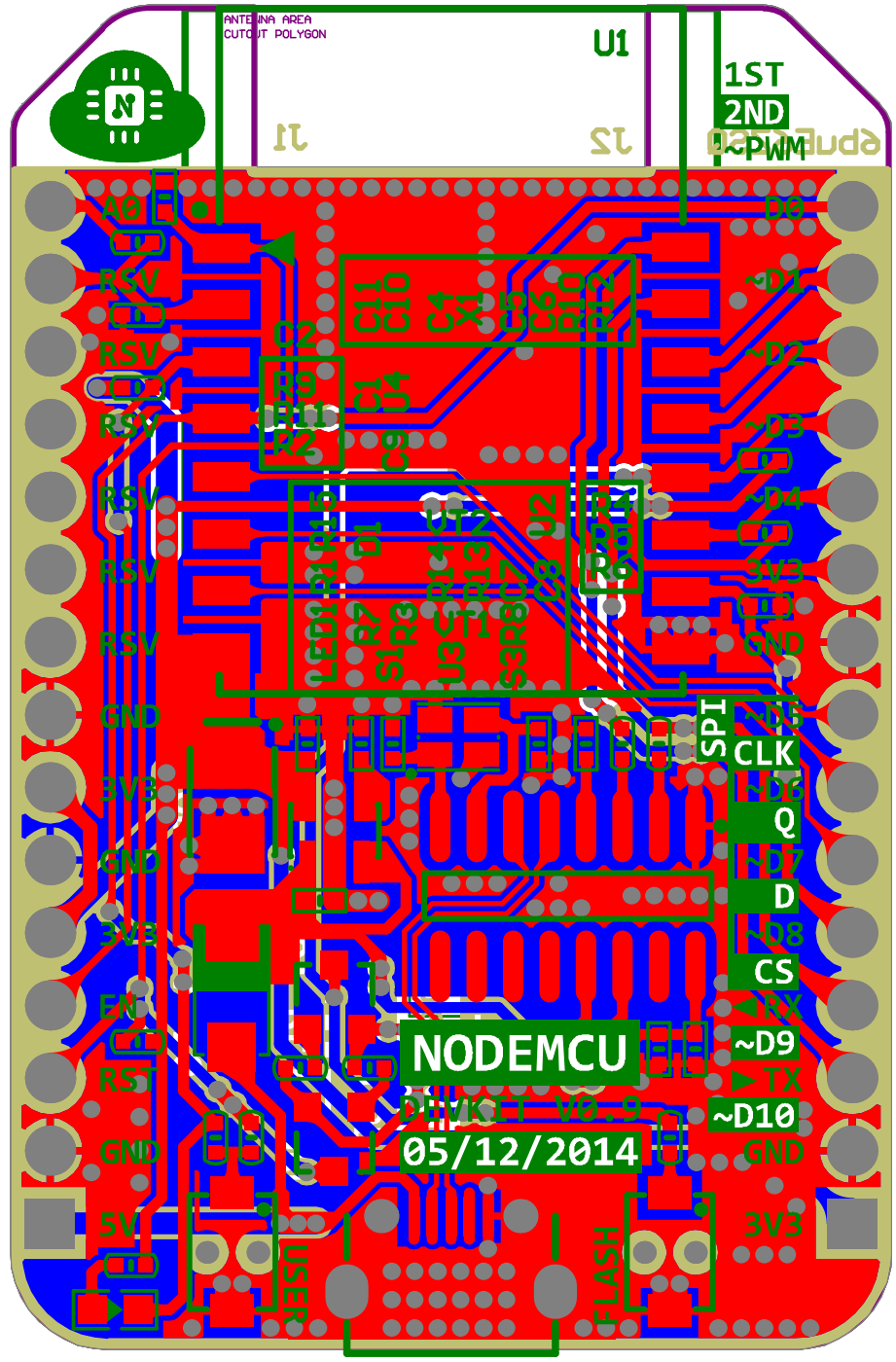


POWER



IO

VER	DATE
0.9	20/11/2014
ORGANIZATION	
NODE MCU TEAM	
WEBSITE	
WWW.NODEMCU.COM	



3.048x4.6793cm

Bill of Materials

NODE MCU ESP12

Source Data From: NODEMCU_ESP12.PrjPCB
Project: NODEMCU_ESP12.PrjPCB
Variant: None

Creation Date: 2014/12/28 15:13:54
Print Date: 28-Dec-14 3:14:03 PM

Footprint	Comment	LibRef	Designator	Description	Quantity
SMT_C_Tantalum_B	100uF TAJB107M006RNJ	SMT_C_Tantalum_B	C1	Capacitor, SM Tantalum; Body 3.5 x 2.8 mm (LxW typ)	1
SMT_C_0402	470pF	SMT_C_0402	C2, C10	Surface mount capacitor 0402	2
SMT_C_0402	22pF	SMT_C_0402	C4, C5	Surface mount capacitor 0402	2
SMT_C_0402	100nF	SMT_C_0402	C6, C8	Surface mount capacitor 0402	2
SMT_C_0402	10uF	SMT_C_0402	C7, C11	Surface mount capacitor 0402	2
SMT_C_0402	1uF	SMT_C_0402	C9	Surface mount capacitor 0402	1
SMT_DIODE_DO_214AC	1N4007/M7(DO-214AC)	SMT_DIODE_SCHOTTKY_DO_214AC	D1	Surface mount schottky diode DO-214AC(SMA) Package	1
THT_Male_P_1x15-2.54mm	THT_Male_P_1x15	THT_Male_P_1x15	J1, J2	THT Male pin header strip 1x15	2
SMT_LED_0603	BLUE	SMT_LED_0603	LED1	SMT LED	1
SMT_R_0402	470	SMT_R_0402	R1, R7, R8, R10, R12	Surface mount resistor 0402	5
SMT_R_0402	12k	SMT_R_0402	R2, R4, R5, R6, R13, R14, R15	Surface mount resistor 0402	7
SMT_R_0402	0(NC)	SMT_R_0402	R3	Surface mount resistor 0402	1
SMT_R_0402	220k(1%)	SMT_R_0402	R9	Surface mount resistor 0402	1
SMT_R_0402	100k(1%)	SMT_R_0402	R11	Surface mount resistor 0402	1
SMT_SW_PTS_820	KEY_USER	SMT_SW_PTS_820	S1	SMT Tactile ?Switch PTS 820 Series	1
SMT_SW_PTS_820	KEY_FLASH	SMT_SW_PTS_820	S3	SMT Tactile ?Switch PTS 820 Series	1
ESP_12	ESP_12	ESP_12	U1	ESP-12 Wi-Fi Module by AI-Thinker	1
SOP-16	CH340G	CH340G	U2	CH340G USB to serial (UART) bridge	1
USB_MICRO_5S_B	USB_Micro_5S_B	USB_Micro_5S_B	U3	USB micro female SMT with 4 fixed foot	1
SOT23-5	SPX3819M5-L-3-3	SPX3819	U4	500mA, Low-Noise LDO Voltage Regulator	1
SMT_TRIODE_NPN	S8050	SMT_TRIODE_NPN	VT1, VT2	Surface mount NPN transistor, package SOT-23	2
SMT_XTAL_2520	12MHz(2520/3225)	SMT_XTAL_PASSIVE	X1	Passive crystal	1
					38

Approved	Notes	