U2
CH341F

Left	Pin		Pin	Right
ACT#	1		29	EP
RSTI	2		28	VCC
IN7	3		27	TEN#
ROV#	4		26	TNOW
TXD	5		25	RDY#
RXD	6		24	SCL
INT#	7		23	SDA
IN3	8		22	SLP#
V3	9		21	RTS#
UD+	10		20	DTR#
UD−	11		19	OUT#
GND	12		18	DCD#
XI	13		17	RI#
XO	14		16	DSR#
			15	CTS#

TP1 TestPoint
R1 2k
GND
C8 100nF
+3V3
GND C4 470nF
GND C5 100nF
+3V3
USB_DP
USB_DN
GND

SCL
SDA
MISO
IRQ
MOSI
BUSY
SCK
NSS
RXEN
NRST

U4
BL24C02F−RRRC

SCL	1	SCL	WP	5	GND
GND	2	GND			C9 100nF
SDA	3	SDA	VCC	4	+3V3

D1 LED
R2 1k
GND
BUSY

U3
E22−400MM22S

+3V3	1	VCC	DIO1	20	IRQ
GND	2	GND	DIO2	19	TXEN
NRST	3	NRST	DIO3	18	
	4	NC	NC	17	
	5	NC	GND	16	GND
RF_ANT	6	ANT	SCK	15	SCK
GND	7	GND	NSS	14	NSS
	8	NC	MOSI	13	MOSI
TXEN	9	TXEN	MISO	12	MISO
RXEN	10	RXEN	BUSY	11	BUSY

J2 SMA
GND

U1
AMS1117−3.3

| +5V | 3 | VI | VO | 2 | +3V3 |
| | | GND | 1 | | |

C3 10uF
C6 10uF
C7 10uF
GND

J1
USB_A

VBUS	1	F1 5.6R	+5V
D+	3		USB_DP
D−	2		USB_DN
Shield			
GND	5 4		GND