CONN_5
P6

D1 LED R2 5K1

ATMEGA32 U1

CONN_10 P1

1	PB0/T0/XCK	1
2	PB1/T1	2
3	PB2/INT2/AIN0	3
4	PB3/OC0/AIN1	4
5	PB4/SS	5
6	PB5/MOSI	6
7	PB6/MISO	7
8	PB7/SCK	8
9	RESET	9
10	VCC	10

PB0

PA0/ADC0 40 PA0
PA1/ADC1 39
PA2/ADC2 38
PA3/ADC3 37
PA4/ADC4 36
PA5/ADC5 35
PA6/ADC6 34
PA7/ADC7 33
AREF 32
GND 31
AVCC 30

CONN_10 P4

C7 .1u +5V
C8 .1u +5V

GND 11
XTL2 12
XTL1 13
PD0/RXD 14 RXD
PD1/TXD 15 TXD
PD2/INT0 16
PD3/INT1 17
PD4/OC1B 18
PD5/OC1A 19
PD6/ICP1 20
PD7/OC2 21

PC7/TOSC2 29 10
PC6/TOSC1 28 9
PC5/TDI 27 8
PC4/TDO 26 7
PC3/TMS 25 6
PC2/TCK 24 5
PC1/SDA 23 4
PC0/SCL 22 3 PC0
2
1

CONN_10 P5
+5V

C4 .1u
C1 15pF
X1 8MHZ
C2 15pF

CONN_10 P3

RXD
TXD

PD7

R1 10K +5V

JP1
C3 .1u
1 PCRST 2
RTS

SW1
RESET

LED
2 D2 1 5K1 R3

R4 5K1

CH340G U2 +5V

1	GND	Vcc	16
2	TXD	232	15
3	RXD	RTS	14
4	V3	DTR	13
5	UD+	DCD	12
6	UD-	RT	11
7	XI	DSR	10
8	XO	CTS	9

.1u C6

C5 .1u
D+
D-

XO
12M X2
XI

PWR_FLAG

Shield_1 Shield_2
D- 2 GND 5
D+ 3 Vbus 1

F1 +5V
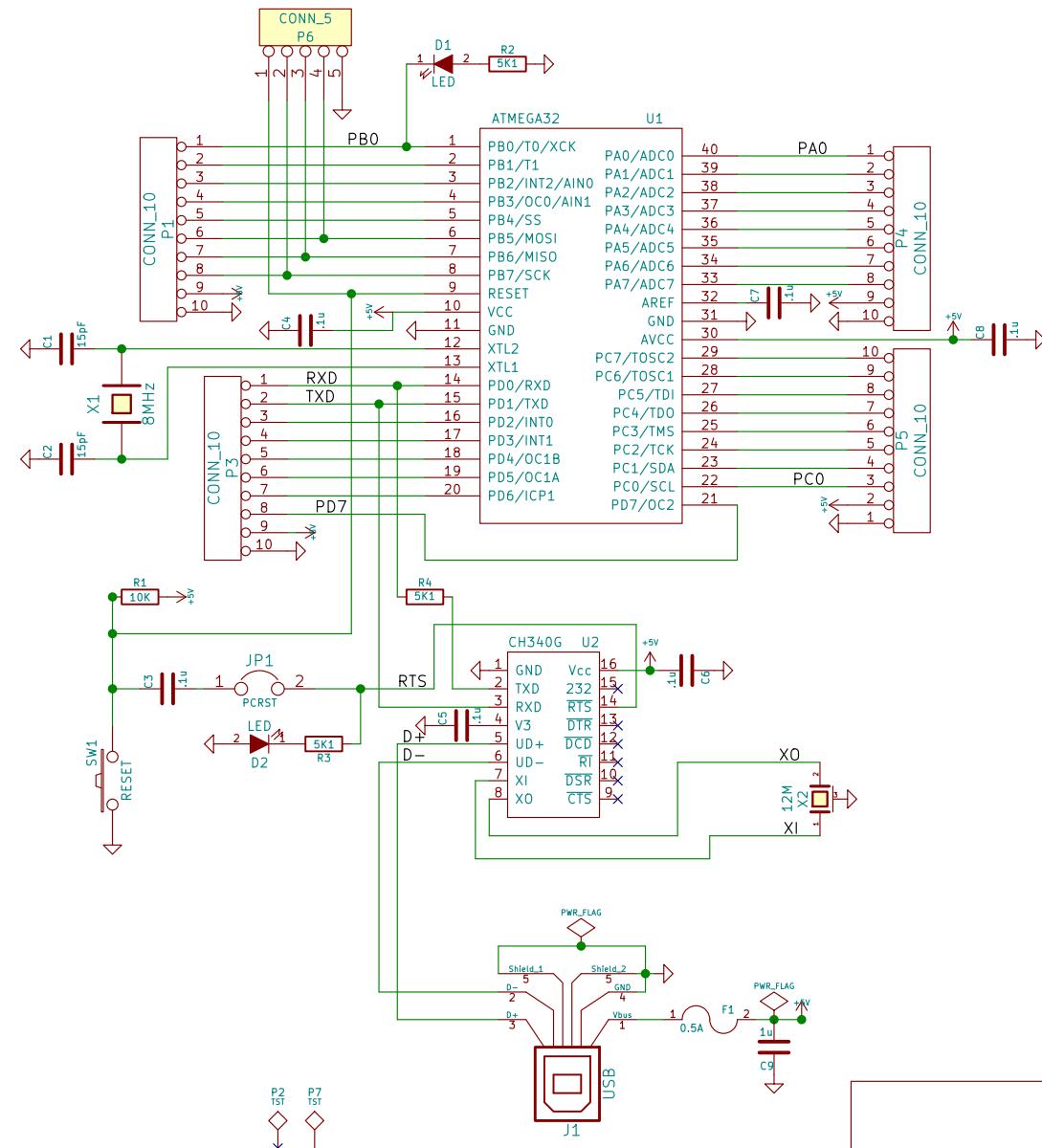0.5A
1u C9

PWR_FLAG

P2 TST P7 TST

USB
J1

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