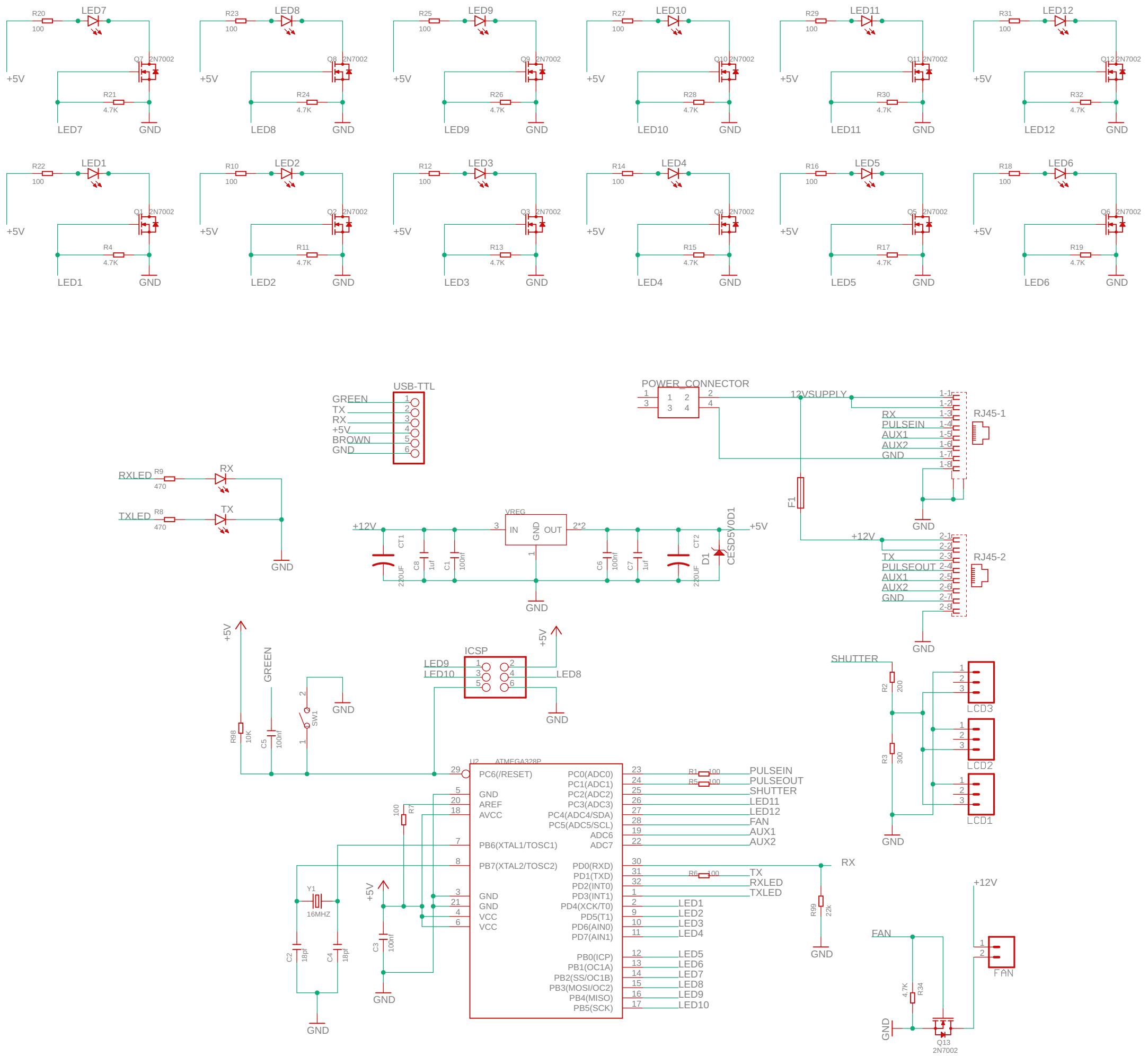
R20 100 LED7 Q7 2N7002 +5V R21 4.7K LED7 GND
R23 100 LED8 Q8 2N7002 +5V R24 4.7K LED8 GND
R25 100 LED9 Q9 2N7002 +5V R26 4.7K LED9 GND
R27 100 LED10 Q10 2N7002 +5V R28 4.7K LED10 GND
R29 100 LED11 Q11 2N7002 +5V R30 4.7K LED11 GND
R31 100 LED12 Q12 2N7002 +5V R32 4.7K LED12 GND
R22 100 LED1 Q1 2N7002 +5V R4 4.7K LED1 GND
R10 100 LED2 Q2 2N7002 +5V R11 4.7K LED2 GND
R12 100 LED3 Q3 2N7002 +5V R13 4.7K LED3 GND
R14 100 LED4 Q4 2N7002 +5V R15 4.7K LED4 GND
R16 100 LED5 Q5 2N7002 +5V R17 4.7K LED5 GND
R18 100 LED6 Q6 2N7002 +5V R19 4.7K LED6 GND
USB-TTL
GREEN
TX
RX
+5V
BROWN
GND
POWER_CONNECTOR
12VSUPPLY
RJ45-1
RX
PULSEIN
AUX1
AUX2
GND
RXLED R9 470 RX
TXLED R8 470 TX
GND
F1
+12V
VREG
IN GND OUT
2*2
+5V
CT1 220UF
C8 1uf
C1 100nf
C6 100nf
C7 1uf
CT2 220UF
D1 CESD5V0D1
GND
+12V
RJ45-2
TX
PULSEOUT
AUX1
AUX2
GND
+5V
GREEN
R98 10K
C5 100nf
SW1
GND
ICSP
LED9
LED10
LED8
GND
SHUTTER
R2 200
R3 300
LCD3
LCD2
LCD1
GND
U2 ATMEGA328P
PC6(/RESET)
GND
AREF
AVCC
PB6(XTAL1/TOSC1)
PB7(XTAL2/TOSC2)
GND
GND
VCC
VCC
PC0(ADC0)
PC1(ADC1)
PC2(ADC2)
PC3(ADC3)
PC4(ADC4/SDA)
PC5(ADC5/SCL)
ADC6
ADC7
PD0(RXD)
PD1(TXD)
PD2(INT0)
PD3(INT1)
PD4(XCK/T0)
PD5(T1)
PD6(AIN0)
PD7(AIN1)
PB0(ICP)
PB1(OC1A)
PB2(SS/OC1B)
PB3(MOSI/OC2)
PB4(MISO)
PB5(SCK)
R1 100 PULSEIN
R5 100 PULSEOUT
SHUTTER
LED11
LED12
FAN
AUX1
AUX2
R6 100 TX
RXLED
TXLED
LED1
LED2
LED3
LED4
LED5
LED6
LED7
LED8
LED9
LED10
RX
R99 22k
GND
R7 100
Y1 16MHZ
C2 18pf
C4 18pf
+5V
C3 100nf
GND
GND
+12V
FAN
FAN
R34 4.7K
GND
Q13 2N7002