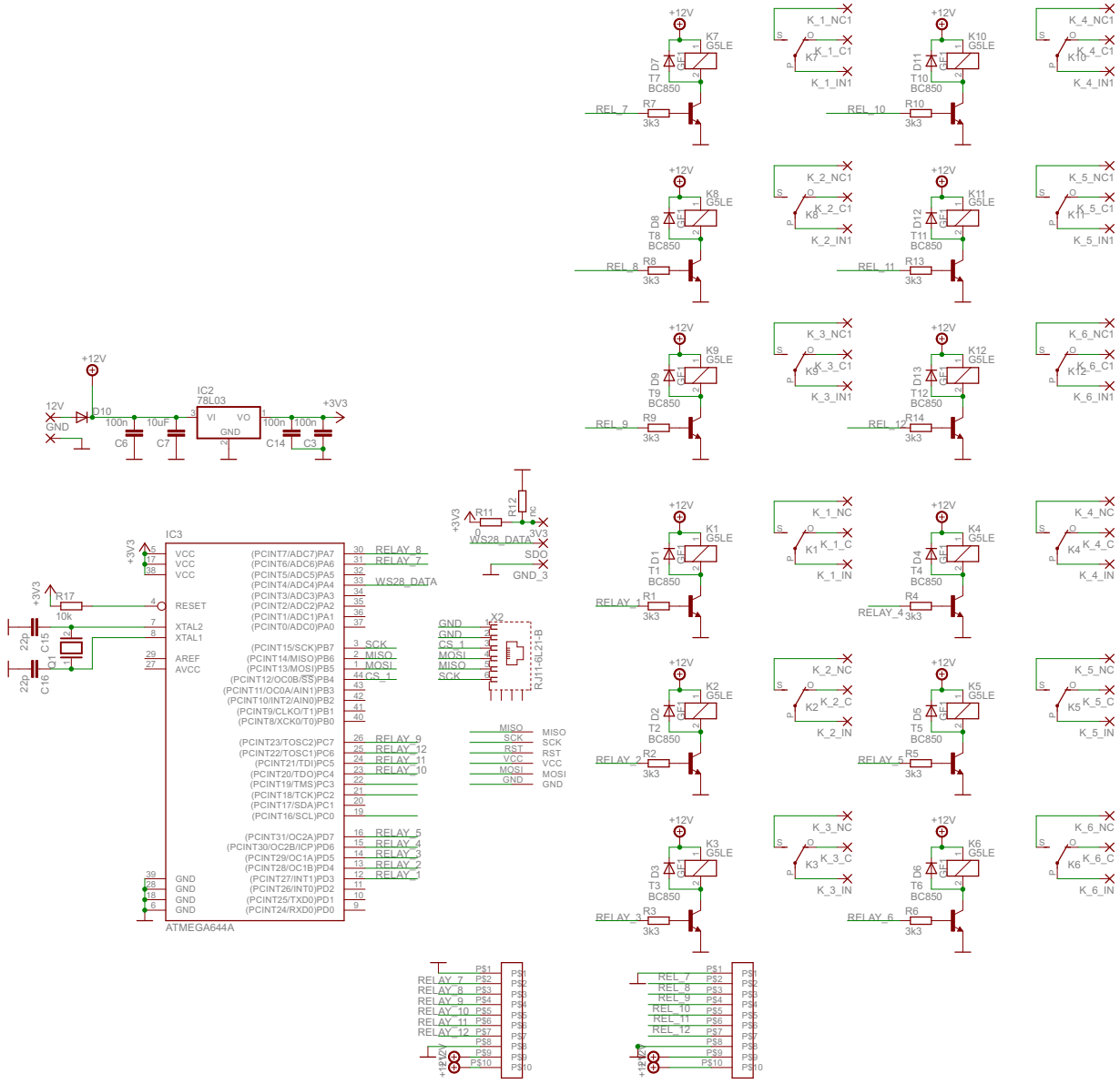
+12V
K7 G5LE
D7 T7 BC850
REL_7 R7 3k3
K_1_NC1 K_1_C1 K_1_IN1
K10 G5LE
D11 T10 BC850
REL_10 R10 3k3
K_4_NC1 K_4_C1 K_4_IN1
K8 G5LE
D8 T8 BC850
REL_8 R8 3k3
K_2_NC1 K_2_C1 K_2_IN1
K11 G5LE
D12 T11 BC850
REL_11 R13 3k3
K_5_NC1 K_5_C1 K_5_IN1
K9 G5LE
D9 T9 BC850
REL_9 R9 3k3
K_3_NC1 K_3_C1 K_3_IN1
K12 G5LE
D13 T12 BC850
REL_12 R14 3k3
K_6_NC1 K_6_C1 K_6_IN1
12V GND
D10
100n C6
10uF C7
IC2 78L03
VI VO GND
100n C14
100n C3
+3V3
R11 0
R12 nc
WS28_DATA
3V3
SDO
GND_3
IC3
VCC VCC VCC
RESET
XTAL2 XTAL1
AREF AVCC
R17 10k
C15 22p
C16 22p
Q1
(PCINT7/ADC7)PA7 RELAY_8
(PCINT6/ADC6)PA6 RELAY_7
(PCINT5/ADC5)PA5
(PCINT4/ADC4)PA4 WS28_DATA
(PCINT3/ADC3)PA3
(PCINT2/ADC2)PA2
(PCINT1/ADC1)PA1
(PCINT0/ADC0)PA0
(PCINT15/SCK)PB7 SCK
(PCINT14/MISO)PB6 MISO
(PCINT13/MOSI)PB5 MOSI
(PCINT12/OC0B/SS)PB4 CS_1
(PCINT11/OC0A/AIN1)PB3
(PCINT10/INT2/AIN0)PB2
(PCINT9/CLKO/T1)PB1
(PCINT8/XCK0/T0)PB0
(PCINT23/TOSC2)PC7
(PCINT22/TOSC1)PC6
(PCINT21/TDI)PC5 RELAY_11
(PCINT20/TDO)PC4 RELAY_10
(PCINT19/TMS)PC3
(PCINT18/TCK)PC2
(PCINT17/SDA)PC1
(PCINT16/SCL)PC0
(PCINT31/OC2A)PD7
(PCINT30/OC2B/ICP)PD6
(PCINT29/OC1A)PD5 RELAY_3
(PCINT28/OC1B)PD4 RELAY_2
(PCINT27/INT1)PD3 RELAY_1
(PCINT26/INT0)PD2
(PCINT25/TXD0)PD1
(PCINT24/RXD0)PD0
GND GND GND GND
ATMEGA644A
X2
GND GND CS_1 MOSI MISO SCK
RJ11-6L2T-B
MISO SCK RST VCC MOSI GND
K1 G5LE
D1 T1 BC850
RELAY_1 R1 3k3
K_1_NC K_1_C K_1_IN
K4 G5LE
D4 T4 BC850
RELAY_4 R4 3k3
K_4_NC K_4_C K_4_IN
K2 G5LE
D2 T2 BC850
RELAY_2 R2 3k3
K_2_NC K_2_C K_2_IN
K5 G5LE
D5 T5 BC850
RELAY_5 R5 3k3
K_5_NC K_5_C K_5_IN
K3 G5LE
D3 T3 BC850
RELAY_3 R3 3k3
K_3_NC K_3_C K_3_IN
K6 G5LE
D6 T6 BC850
RELAY_6 R6 3k3
K_6_NC K_6_C K_6_IN
RELAY_7 RELAY_8 RELAY_9 RELAY_10 RELAY_11 RELAY_12
REL_7 REL_8 REL_9 REL_10 REL_11 REL_12
P$1 P$2 P$3 P$4 P$5 P$6 P$7 P$8 P$9 P$10