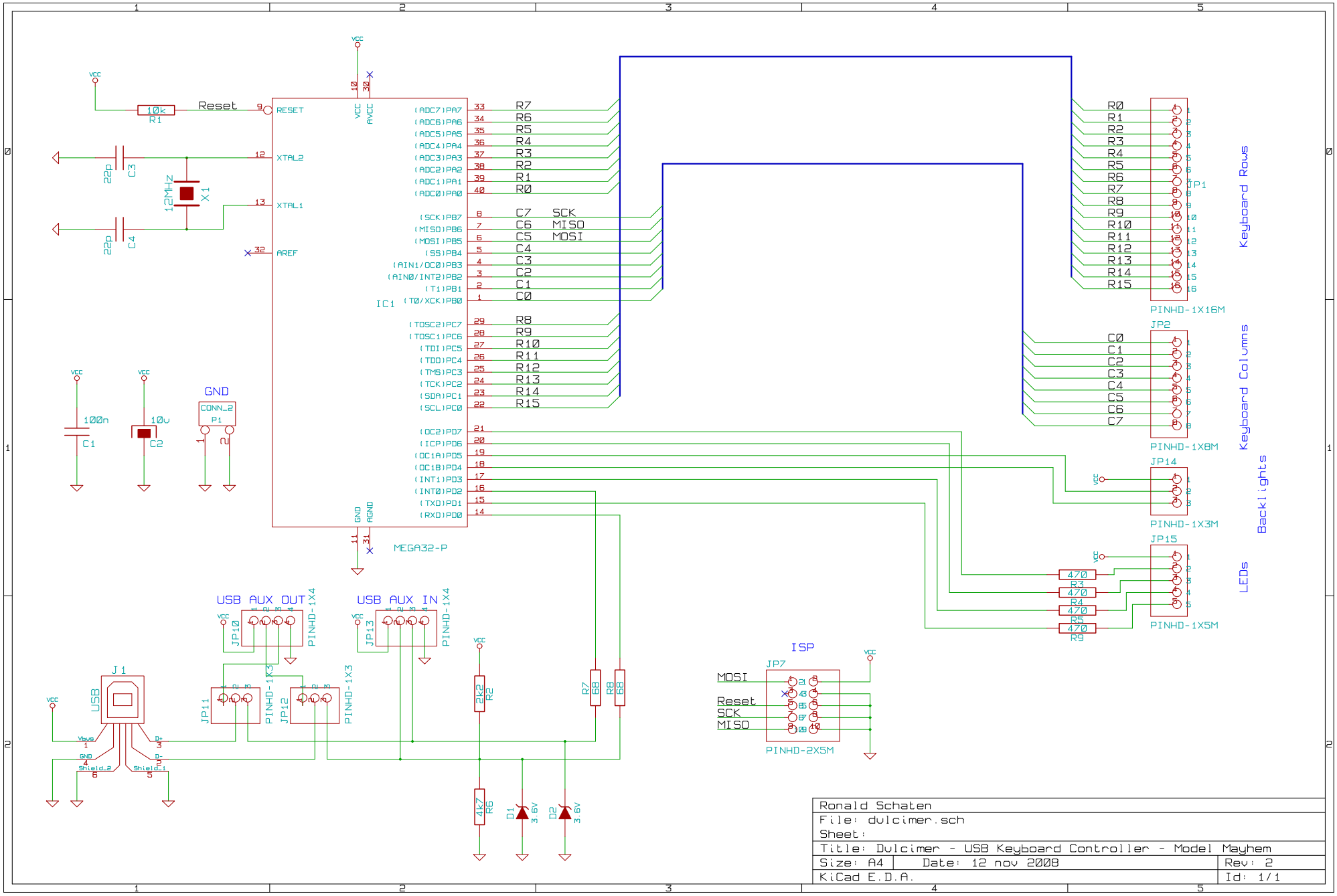
VCC
10k
R1
Reset
RESET
22p
C3
12MHz
X1
22p
C4
XTAL2
XTAL1
AREF
MEGA32-P
(ADC7)PA7 33 R7
(ADC6)PA6 34 R6
(ADC5)PA5 35 R5
(ADC4)PA4 36 R4
(ADC3)PA3 37 R3
(ADC2)PA2 38 R2
(ADC1)PA1 39 R1
(ADC0)PA0 40 R0
(SCK)PB7 8 C7 SCK
(MISO)PB6 7 C6 MISO
(MOSI)PB5 6 C5 MOSI
(SS)PB4 5 C4
(AIN1/OC0)PB3 4 C3
(AIN0/INT2)PB2 3 C2
(T1)PB1 2 C1
(T0/XCK)PB0 1 C0
(TOSC2)PC7 29 R8
(TOSC1)PC6 28 R9
(TDI)PC5 27 R10
(TDO)PC4 26 R11
(TMS)PC3 25 R12
(TCK)PC2 24 R13
(SDA)PC1 23 R14
(SCL)PC0 22 R15
(OC2)PD7 21
(ICP)PD6 20
(OC1A)PD5 19
(OC1B)PD4 18
(INT1)PD3 17
(INT0)PD2 16
(TXD)PD1 15
(RXD)PD0 14
100n
C1
10u
C2
GND
CONN_2
P1
JP1
R0 R1 R2 R3 R4 R5 R6 R7 R8 R9 R10 R11 R12 R13 R14 R15
PINHD-1X16M
Keyboard Rows
JP2
C0 C1 C2 C3 C4 C5 C6 C7
PINHD-1X8M
Keyboard Columns
JP14
PINHD-1X3M
Backlights
JP15
470 R3
470 R4
470 R5
470 R9
PINHD-1X5M
LEDs
USB AUX OUT
JP10
PINHD-1X4
USB AUX IN
JP13
PINHD-1X4
J1
USB
Vbus
D-
D+
GND
Shield_2
Shield_1
JP11
PINHD-1X3
JP12
PINHD-1X3
2k2 R2
68 R7
68 R8
4k7 R6
D1 3.6V
D2 3.6V
ISP
JP7
MOSI
Reset
SCK
MISO
PINHD-2X5M
Ronald Schaten
File: dulcimer.sch
Sheet:
Title: Dulcimer - USB Keyboard Controller - Model Mayhem
Size: A4
Date: 12 nov 2008
Rev: 2
KiCad E.D.A.
Id: 1/1