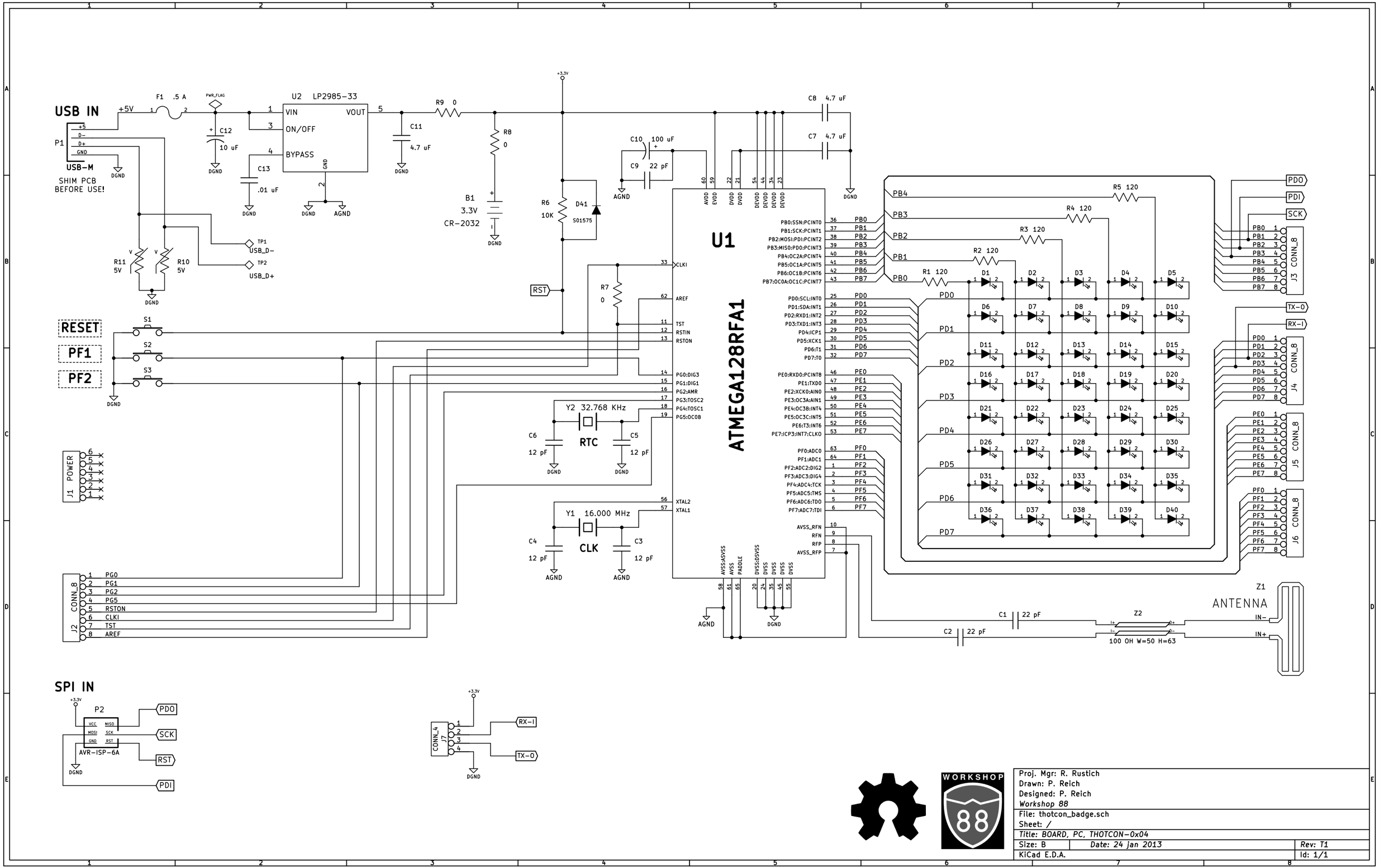
USB IN
P1
USB-M
SHIM PCB BEFORE USE!
F1 .5 A
PWR_FLAG
U2 LP2985-33
VIN
ON/OFF
BYPASS
VOUT
GND
C12 10 uF
C13 .01 uF
C11 4.7 uF
R9 0
R8 0
B1 3.3V CR-2032
R6 10K
D41 S01575
C10 100 uF
C9 22 pF
C8 4.7 uF
C7 4.7 uF
R11 5V
R10 5V
TP1 USB_D-
TP2 USB_D+
RESET
PF1
PF2
S1
S2
S3
J1 POWER
J2 CONN_8
PG0
PG1
PG2
PG5
RSTON
CLKI
TST
AREF
Y2 32.768 KHz
RTC
C6 12 pF
C5 12 pF
Y1 16.000 MHz
CLK
C4 12 pF
C3 12 pF
R7 0
RST
U1
ATMEGA128RFA1
PB0:SSN:PCINT0
PB1:SCK:PCINT1
PB2:MOSI:PDI:PCINT2
PB3:MISO:PDO:PCINT3
PB4:OC2A:PCINT4
PB5:OC1A:PCINT5
PB6:OC1B:PCINT6
PB7:OC0A:OC1C:PCINT7
PD0:SCL:INT0
PD1:SDA:INT1
PD2:RXD1:INT2
PD3:TXD1:INT3
PD4:ICP1
PD5:XCK1
PD6:T1
PD7:T0
PE0:RXD0:PCINT8
PE1:TXD0
PE2:XCK0:AIN0
PE3:OC3A:AIN1
PE4:OC3B:INT4
PE5:OC3C:INT5
PE6:T3:INT6
PE7:ICP3:INT7:CLKO
PF0:ADC0
PF1:ADC1
PF2:ADC2:DIG2
PF3:ADC3:DIG4
PF4:ADC4:TCK
PF5:ADC5:TMS
PF6:ADC6:TDO
PF7:ADC7:TDI
AVSS_RFN
RFN
RFP
AVSS_RFP
R5 120
R4 120
R3 120
R2 120
R1 120
J3 CONN_8
J4 CONN_8
J5 CONN_8
J6 CONN_8
PDO
PDI
SCK
TX-O
RX-I
C1 22 pF
C2 22 pF
Z2
100 OH W=50 H=63
Z1
ANTENNA
IN-
IN+
SPI IN
P2
AVR-ISP-6A
VCC
MISO
MOSI
SCK
GND
RST
CONN_4 J7
WORKSHOP
88
Proj. Mgr: R. Rustich
Drawn: P. Reich
Designed: P. Reich
Workshop 88
File: thotcon_badge.sch
Sheet: /
Title: BOARD, PC, THOTCON-0x04
Size: B
Date: 24 jan 2013
Rev: T1
KiCad E.D.A.
Id: 1/1