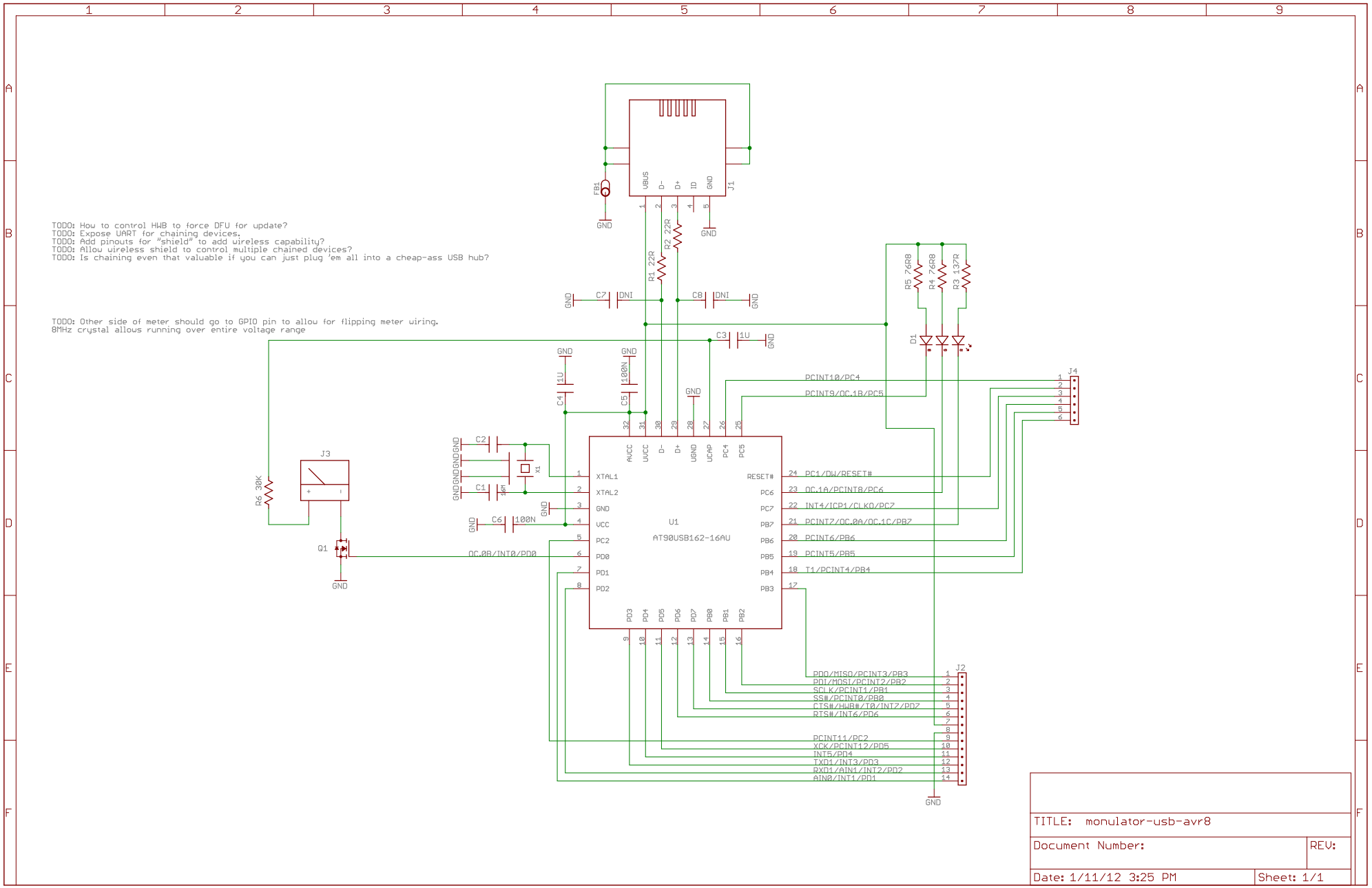
TODO: How to control HWB to force DFU for update?
TODO: Expose UART for chaining devices.
TODO: Add pinouts for "shield" to add wireless capability?
TODO: Allow wireless shield to control multiple chained devices?
TODO: Is chaining even that valuable if you can just plug 'em all into a cheap-ass USB hub?
TODO: Other side of meter should go to GPIO pin to allow for flipping meter wiring.
8MHz crystal allows running over entire voltage range
J1
VBUS
D-
D+
ID
GND
FB1
R1 22R
R2 22R
C7 DNI
C8 DNI
C3 1U
C4 1U
C5 100N
C1 16M
C2
C6 100N
X1
R5 76R8
R4 76R8
R3 137R
D1
J4
PCINT10/PC4
PCINT9/OC.1B/PC5
J3
R6 30K
Q1
OC.0B/INT0/PD0
U1
AT90USB162-16AU
AVCC
UVCC
UGND
UCAP
PC4
PC5
XTAL1
XTAL2
VCC
PC2
PD0
PD1
PD2
PD3
PD4
PD5
PD6
PD7
PB0
PB1
PB2
RESET#
PC6
PC7
PB7
PB6
PB5
PB4
PB3
PC1/DW/RESET#
OC.1A/PCINT8/PC6
INT4/ICP1/CLKO/PC7
PCINT7/OC.0A/OC.1C/PB7
PCINT6/PB6
PCINT5/PB5
T1/PCINT4/PB4
J2
PDO/MISO/PCINT3/PB3
PDI/MOSI/PCINT2/PB2
SCLK/PCINT1/PB1
SS#/PCINT0/PB0
CTS#/HWB#/T0/INT7/PD7
RTS#/INT6/PD6
PCINT11/PC2
XCK/PCINT12/PD5
INT5/PD4
TXD1/INT3/PD3
RXD1/AIN1/INT2/PD2
AIN0/INT1/PD1
TITLE: monulator-usb-avr8
Document Number:
REV:
Date: 1/11/12 3:25 PM
Sheet: 1/1