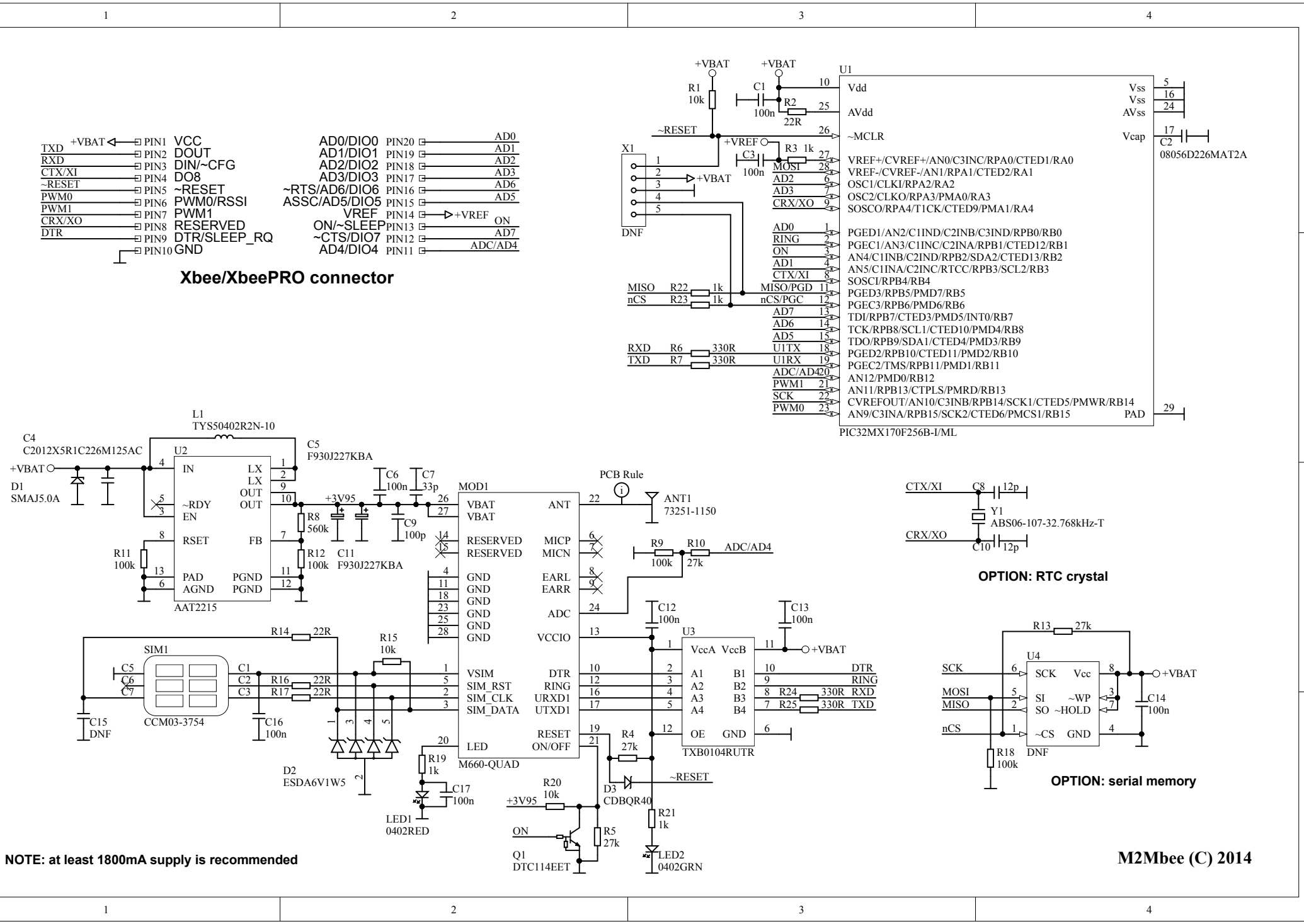
Xbee/XbeePRO connector
+VBAT
TXD
RXD
CTX/XI
~RESET
PWM0
PWM1
CRX/XO
DTR
PIN1 VCC
PIN2 DOUT
PIN3 DIN/~CFG
PIN4 DO8
PIN5 ~RESET
PIN6 PWM0/RSSI
PIN7 PWM1
PIN8 RESERVED
PIN9 DTR/SLEEP_RQ
PIN10 GND
AD0/DIO0 PIN20 AD0
AD1/DIO1 PIN19 AD1
AD2/DIO2 PIN18 AD2
AD3/DIO3 PIN17 AD3
~RTS/AD6/DIO6 PIN16 AD6
ASSC/AD5/DIO5 PIN15 AD5
VREF PIN14 +VREF
ON/~SLEEP PIN13 ON
~CTS/DIO7 PIN12 AD7
AD4/DIO4 PIN11 ADC/AD4
U1
Vdd
AVdd
~MCLR
Vss
Vss
AVss
Vcap
C2
08056D226MAT2A
VREF+/CVREF+/AN0/C3INC/RPA0/CTED1/RA0
VREF-/CVREF-/AN1/RPA1/CTED2/RA1
OSC1/CLKI/RPA2/RA2
OSC2/CLKO/RPA3/PMA0/RA3
SOSCO/RPA4/T1CK/CTED9/PMA1/RA4
PGED1/AN2/C1IND/C2INB/C3IND/RPB0/RB0
PGEC1/AN3/C1INC/C2INA/RPB1/CTED12/RB1
AN4/C1INB/C2IND/RPB2/SDA2/CTED13/RB2
AN5/C1INA/C2INC/RTCC/RPB3/SCL2/RB3
SOSCI/RPB4/RB4
PGED3/RPB5/PMD7/RB5
PGEC3/RPB6/PMD6/RB6
TDI/RPB7/CTED3/PMD5/INT0/RB7
TCK/RPB8/SCL1/CTED10/PMD4/RB8
TDO/RPB9/SDA1/CTED4/PMD3/RB9
PGED2/RPB10/CTED11/PMD2/RB10
PGEC2/TMS/RPB11/PMD1/RB11
AN12/PMD0/RB12
AN11/RPB13/CTPLS/PMRD/RB13
CVREFOUT/AN10/C3INB/RPB14/SCK1/CTED5/PMWR/RB14
AN9/C3INA/RPB15/SCK2/CTED6/PMCS1/RB15
PAD
PIC32MX170F256B-I/ML
R1 10k
C1 100n
R2 22R
C3 100n
R3 1k
X1
DNF
MISO R22 1k
nCS R23 1k
RXD R6 330R
TXD R7 330R
L1
TYS50402R2N-10
C4
C2012X5R1C226M125AC
C5
F930J227KBA
U2
D1
SMAJ5.0A
IN
~RDY
EN
RSET
PAD
AGND
LX
OUT
FB
PGND
AAT2215
R8 560k
R12 100k
R11 100k
C11
F930J227KBA
+3V95
C6 100n
C7 33p
C9 100p
MOD1
VBAT
RESERVED
GND
VSIM
SIM_RST
SIM_CLK
SIM_DATA
LED
ANT
MICP
MICN
EARL
EARR
ADC
VCCIO
DTR
RING
URXD1
UTXD1
RESET
ON/OFF
M660-QUAD
PCB Rule
ANT1
73251-1150
R9 100k
R10 27k
ADC/AD4
SIM1
CCM03-3754
C15
DNF
C16 100n
R14 22R
R15 10k
R16 22R
R17 22R
D2
ESDA6V1W5
R19 1k
C17 100n
LED1
0402RED
R20 10k
Q1
DTC114EET
R5 27k
ON
C12 100n
C13 100n
U3
VccA
VccB
A1
A2
A3
A4
OE
B1
B2
B3
B4
GND
TXB0104RUTR
R24 330R
R25 330R
R4 27k
D3
CDBQR40
~RESET
R21 1k
LED2
0402GRN
CTX/XI
CRX/XO
C8 12p
C10 12p
Y1
ABS06-107-32.768kHz-T
OPTION: RTC crystal
R13 27k
U4
SCK
MOSI
MISO
nCS
SI
SO
~CS
Vcc
~WP
~HOLD
GND
C14 100n
R18 100k
DNF
OPTION: serial memory
NOTE: at least 1800mA supply is recommended
M2Mbee (C) 2014