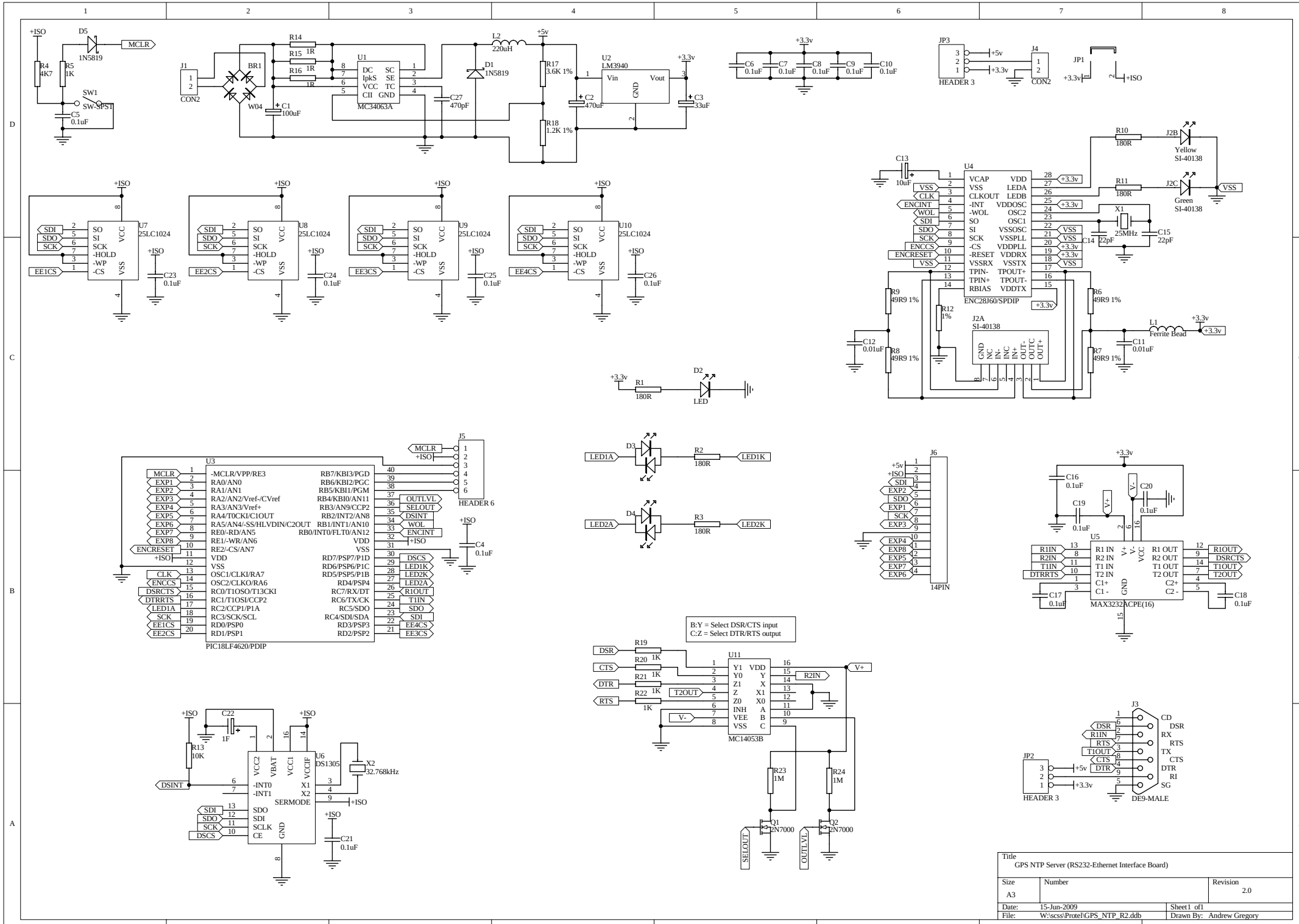
+ISO
D5
1N5819
MCLR
R4
4K7
R5
1K
SW1
SW-SPST
C5
0.1uF
J1
CON2
BR1
W04
C1
100uF
R14
R15 1R
R16 1R
1R
U1
DC
IpkS
VCC
CII
SC
SE
TC
GND
MC34063A
C27
470pF
L2
220uH
+5v
D1
1N5819
R17
3.6K 1%
R18
1.2K 1%
U2
LM3940
Vin
Vout
GND
+3.3v
C2
470uF
C3
33uF
C6
0.1uF
C7
0.1uF
C8
0.1uF
C9
0.1uF
C10
0.1uF
JP3
HEADER 3
J4
CON2
JP1
U7
25LC1024
U8
25LC1024
U9
25LC1024
U10
25LC1024
SDI
SDO
SCK
EE1CS
EE2CS
EE3CS
EE4CS
SO
SI
SCK
-HOLD
-WP
-CS
VCC
VSS
C23
0.1uF
C24
0.1uF
C25
0.1uF
C26
0.1uF
C13
10uF
U4
VCAP
VSS
CLKOUT
-INT
-WOL
SO
SI
SCK
-CS
-RESET
VSSRX
TPIN-
TPIN+
RBIAS
VDD
LEDA
LEDB
VDDOSC
OSC2
OSC1
VSSOSC
VSSPLL
VDDPLL
VDDRX
VSSTX
TPOUT+
TPOUT-
VDDTX
ENC28J60/SPDIP
ENCINT
ENCCS
ENCRESET
R10
180R
J2B
Yellow
SI-40138
R11
180R
J2C
Green
SI-40138
X1
25MHz
C14
22pF
C15
22pF
R9
49R9 1%
R12
1%
R6
49R9 1%
R8
49R9 1%
R7
49R9 1%
C12
0.01uF
J2A
SI-40138
GND
NC
IN-
INC
IN+
OUT-
OUTC
OUT+
L1
Ferrite Bead
C11
0.01uF
R1
180R
D2
LED
U3
PIC18LF4620/PDIP
-MCLR/VPP/RE3
RA0/AN0
RA1/AN1
RA2/AN2/Vref-/CVref
RA3/AN3/Vref+
RA4/T0CKI/C1OUT
RA5/AN4/-SS/HLVDIN/C2OUT
RE0/-RD/AN5
RE1/-WR/AN6
RE2/-CS/AN7
VDD
VSS
OSC1/CLKI/RA7
OSC2/CLKO/RA6
RC0/T1OSO/T13CKI
RC1/T1OSI/CCP2
RC2/CCP1/P1A
RC3/SCK/SCL
RD0/PSP0
RD1/PSP1
RB7/KBI3/PGD
RB6/KBI2/PGC
RB5/KBI1/PGM
RB4/KBI0/AN11
RB3/AN9/CCP2
RB2/INT2/AN8
RB1/INT1/AN10
RB0/INT0/FLT0/AN12
VDD
VSS
RD7/PSP7/P1D
RD6/PSP6/P1C
RD5/PSP5/P1B
RD4/PSP4
RC7/RX/DT
RC6/TX/CK
RC5/SDO
RC4/SDI/SDA
RD3/PSP3
RD2/PSP2
J5
HEADER 6
OUTLVL
SELOUT
DSINT
WOL
ENCINT
DSCS
LED1K
LED2K
LED2A
R1OUT
T1IN
SDO
SDI
EE4CS
EE3CS
C4
0.1uF
D3
D4
LED1A
LED2A
R2
180R
R3
180R
LED1K
LED2K
J6
14PIN
C16
0.1uF
C19
0.1uF
C20
0.1uF
U5
MAX3232ACPE(16)
R1IN
R2IN
T1IN
DTRRTS
R1 IN
R2 IN
T1 IN
T2 IN
C1+
C1 -
V+
V-
VCC
GND
R1 OUT
R2 OUT
T1 OUT
T2 OUT
C2+
C2 -
R1OUT
DSRCTS
T1OUT
T2OUT
C17
0.1uF
C18
0.1uF
B:Y = Select DSR/CTS input
C:Z = Select DTR/RTS output
U11
MC14053B
DSR
CTS
DTR
RTS
R19
R20 1K
R21 1K
R22 1K
1K
T2OUT
V-
R2IN
V+
Y1
Y0
Z1
Z
Z0
INH
VEE
VSS
VDD
Y
X
X1
X0
A
B
C
R23
1M
R24
1M
Q1
2N7000
Q2
2N7000
SELOUT
OUTLVL
C22
1F
R13
10K
U6
DS1305
VCC2
VBAT
VCC1
VCCIF
-INT0
-INT1
SERMODE
SDO
SDI
SCLK
CE
GND
X1
X2
X2
32.768kHz
DSINT
DSCS
C21
0.1uF
J3
DE9-MALE
CD
DSR
RX
RTS
TX
CTS
DTR
RI
SG
R1IN
T1OUT
JP2
HEADER 3
Title
GPS NTP Server (RS232-Ethernet Interface Board)
Size
A3
Number
Revision
2.0
Date:
15-Jun-2009
Sheet1 of1
File:
W:\scss\Protel\GPS_NTP_R2.ddb
Drawn By:
Andrew Gregory