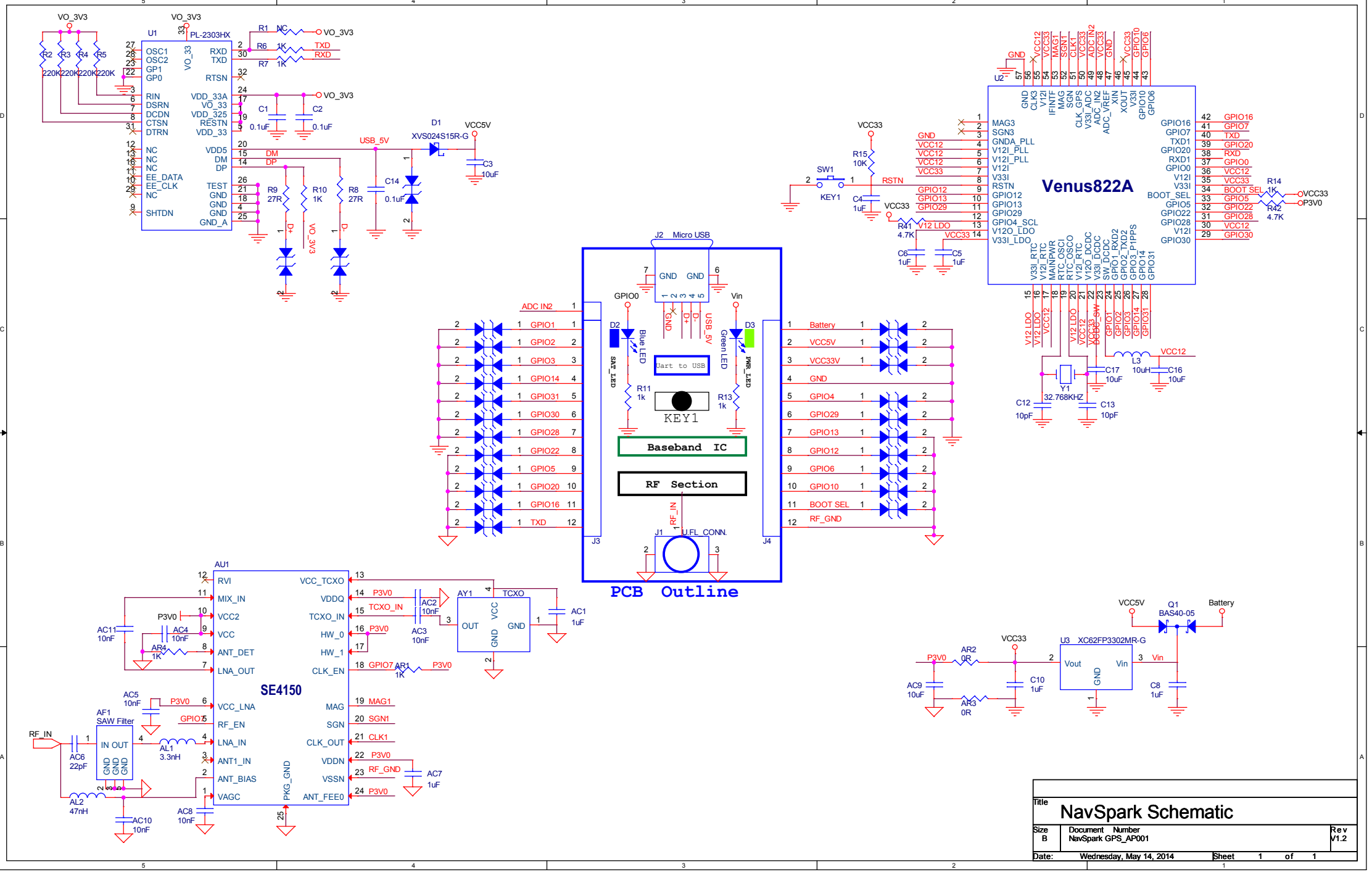
U1 PL-2303HX
VO_3V3
R1 NC
R6 1K TXD
R7 1K RXD
R2 R3 R4 R5 220K
C1 0.1uF
C2 0.1uF
D1 XVS024S15R-G
VCC5V
USB_5V
C3 10uF
C14 0.1uF
R9 27R
R10 1K
R8 27R
DM
DP
D+
D-
U2 Venus822A
SW1 KEY1
R15 10K
C4 1uF
R41 4.7K
C6 1uF
C5 1uF
R14 1K
R42 4.7K
VCC33
P3V0
L3 10uH
C17 10uF
C16 10uF
Y1 32.768KHZ
C12 10pF
C13 10pF
J2 Micro USB
GND
GPIO0
Vin
D2 Blue LED
D3 Green LED
SAT_LED
PWR_LED
Uart to USB
R11 1k
R13 1k
KEY1
Baseband IC
RF Section
J1 U.FL CONN.
RF_IN
J3
J4
ADC IN2
GPIO1
GPIO2
GPIO3
GPIO14
GPIO31
GPIO30
GPIO28
GPIO22
GPIO5
GPIO20
GPIO16
TXD
Battery
VCC5V
VCC33V
GPIO4
GPIO29
GPIO13
GPIO12
GPIO6
GPIO10
BOOT SEL
RF_GND
PCB Outline
AU1 SE4150
RVI
MIX_IN
VCC2
VCC
ANT_DET
LNA_OUT
VCC_LNA
RF_EN
LNA_IN
ANT1_IN
ANT_BIAS
VAGC
VCC_TCXO
VDDQ
TCXO_IN
HW_0
HW_1
CLK_EN
MAG
SGN
CLK_OUT
VDDN
VSSN
ANT_FEE0
PKG_GND
AC11 10nF
AC4 10nF
AR4 1K
AC5 10nF
AF1 SAW Filter
IN OUT
AC6 22pF
AL1 3.3nH
AL2 47nH
AC10 10nF
AC8 10nF
AC2 10nF
AC3 10nF
AY1
OUT
GND
TCXO
AC1 1uF
AR1 1K
AC7 1uF
Q1 BAS40-05
U3 XC62FP3302MR-G
Vout
Vin
AR2 0R
AR3 0R
AC9 10uF
C10 1uF
C8 1uF
Title
NavSpark Schematic
Size B
Document Number
NavSpark GPS_AP001
Rev V1.2
Date: Wednesday, May 14, 2014
Sheet 1 of 1