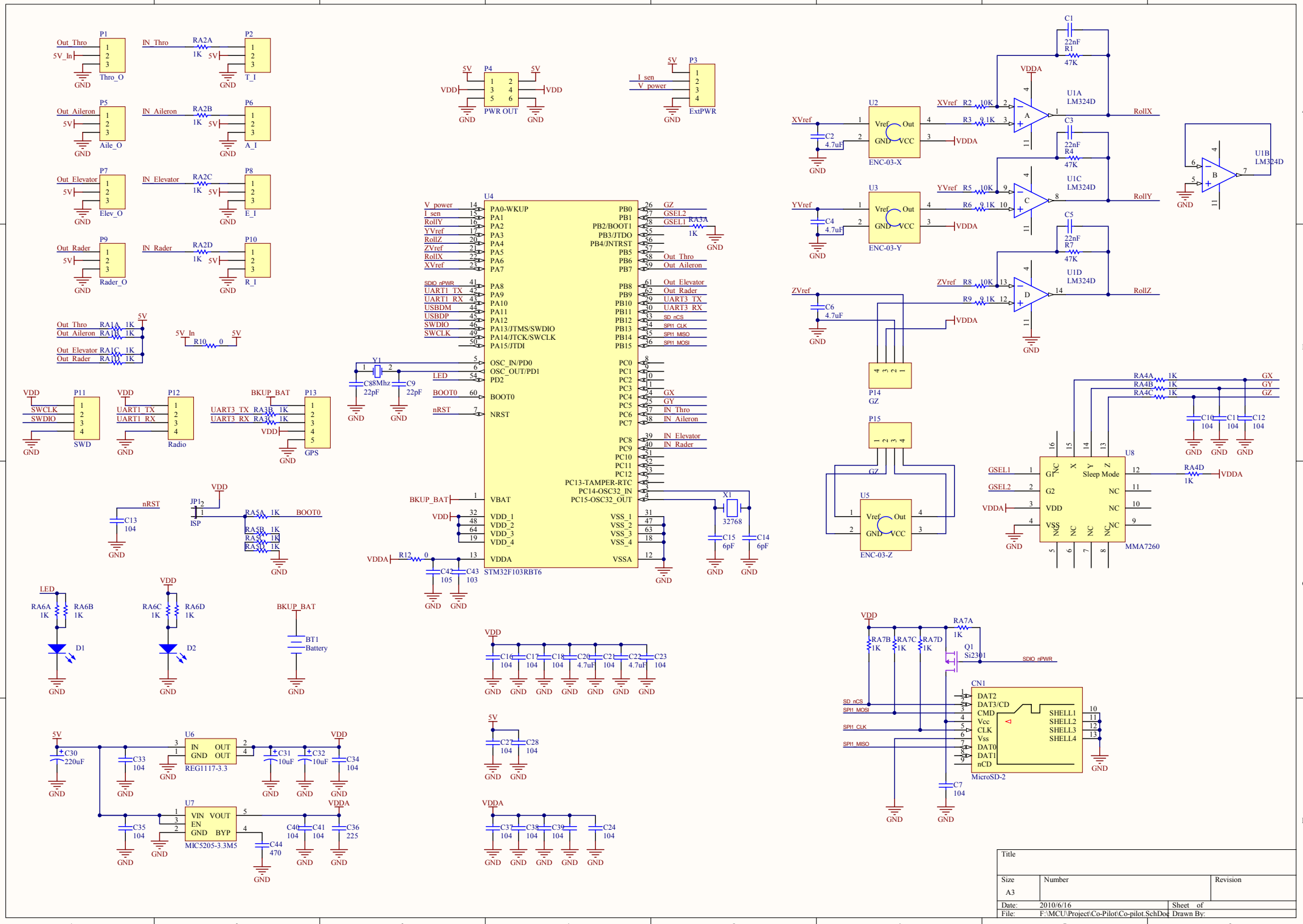
P1
Out_Thro
5V_In
Thro_O
P2
IN_Thro
RA2A
1K
5V
T_I
P5
Out_Aileron
Aile_O
P6
IN_Aileron
RA2B
A_I
P7
Out_Elevator
Elev_O
P8
IN_Elevator
RA2C
E_I
P9
Out_Rader
Rader_O
P10
IN_Rader
RA2D
R_I
GND
P4
PWR OUT
VDD
P3
I_sen
V_power
ExtPWR
U4
STM32F103RBT6
PA0-WKUP
PA1
PA2
PA3
PA4
PA5
PA6
PA7
PA8
PA9
PA10
PA11
PA12
PA13/JTMS/SWDIO
PA14/JTCK/SWCLK
PA15/JTDI
PB0
PB1
PB2/BOOT1
PB3/JTDO
PB4/JNTRST
PB5
PB6
PB7
PB8
PB9
PB10
PB11
PB12
PB13
PB14
PB15
PC0
PC1
PC2
PC3
PC4
PC5
PC6
PC7
PC8
PC9
PC10
PC11
PC12
PC13-TAMPER-RTC
PC14-OSC32_IN
PC15-OSC32_OUT
OSC_IN/PD0
OSC_OUT/PD1
PD2
BOOT0
NRST
VBAT
VDD_1
VDD_2
VDD_3
VDD_4
VDDA
VSS_1
VSS_2
VSS_3
VSS_4
VSSA
SDIO_nPWR
UART1_TX
UART1_RX
USBDM
USBDP
SWDIO
SWCLK
RollY
YVref
RollZ
ZVref
RollX
XVref
GZ
GSEL2
GSEL1
Out_Thro
Out_Aileron
Out_Elevator
Out_Rader
UART3_TX
UART3_RX
SD_nCS
SPI1_CLK
SPI1_MISO
SPI1_MOSI
IN_Thro
IN_Aileron
IN_Elevator
IN_Rader
GX
GY
LED
BKUP_BAT
Y1
C88Mhz
22pF
C9
22pF
X1
32768
C15
6pF
C14
6pF
C42
105
C43
103
R12
0
RA3A
1K
U1A
LM324D
U1B
LM324D
U1C
LM324D
U1D
LM324D
U2
ENC-03-X
U3
ENC-03-Y
U5
ENC-03-Z
C1
22nF
R1
47K
C3
22nF
R4
47K
C5
22nF
R7
47K
XVref
YVref
ZVref
C2
4.7uF
C4
4.7uF
C6
4.7uF
VDDA
P14
GZ
P15
U8
MMA7260
Sleep Mode
GSEL1
GSEL2
RA4A
RA4B
RA4C
RA4D
C10
104
C11
104
C12
104
P11
SWD
SWCLK
SWDIO
P12
Radio
UART3_TX
UART3_RX
P13
GPS
RA3B
RA3C
RA3D
C13
104
JP1
ISP
RA5A
RA5B
RA5C
RA5D
BOOT0
RA6A
RA6B
RA6C
RA6D
D1
D2
BT1
Battery
C16
C17
C18
C20
C21
C22
C23
104
4.7uF
C27
C28
C37
C38
C39
C24
RA7A
RA7B
RA7C
RA7D
Q1
Si2301
CN1
MicroSD-2
DAT2
DAT3/CD
CMD
Vcc
CLK
Vss
DAT0
DAT1
nCD
SHELL1
SHELL2
SHELL3
SHELL4
C7
104
U6
REG1117-3.3
IN
OUT
GND
C30
220uF
C31
10uF
C32
10uF
C33
104
C34
104
U7
MIC5205-3.3M5
VIN
VOUT
EN
BYP
C35
104
C40
104
C41
104
C36
225
C44
470
Title
Size
A3
Number
Revision
Date:
2010/6/16
Sheet of
File:
F:\MCU\Project\Co-Pilot\Co-pilot.SchDoc
Drawn By: