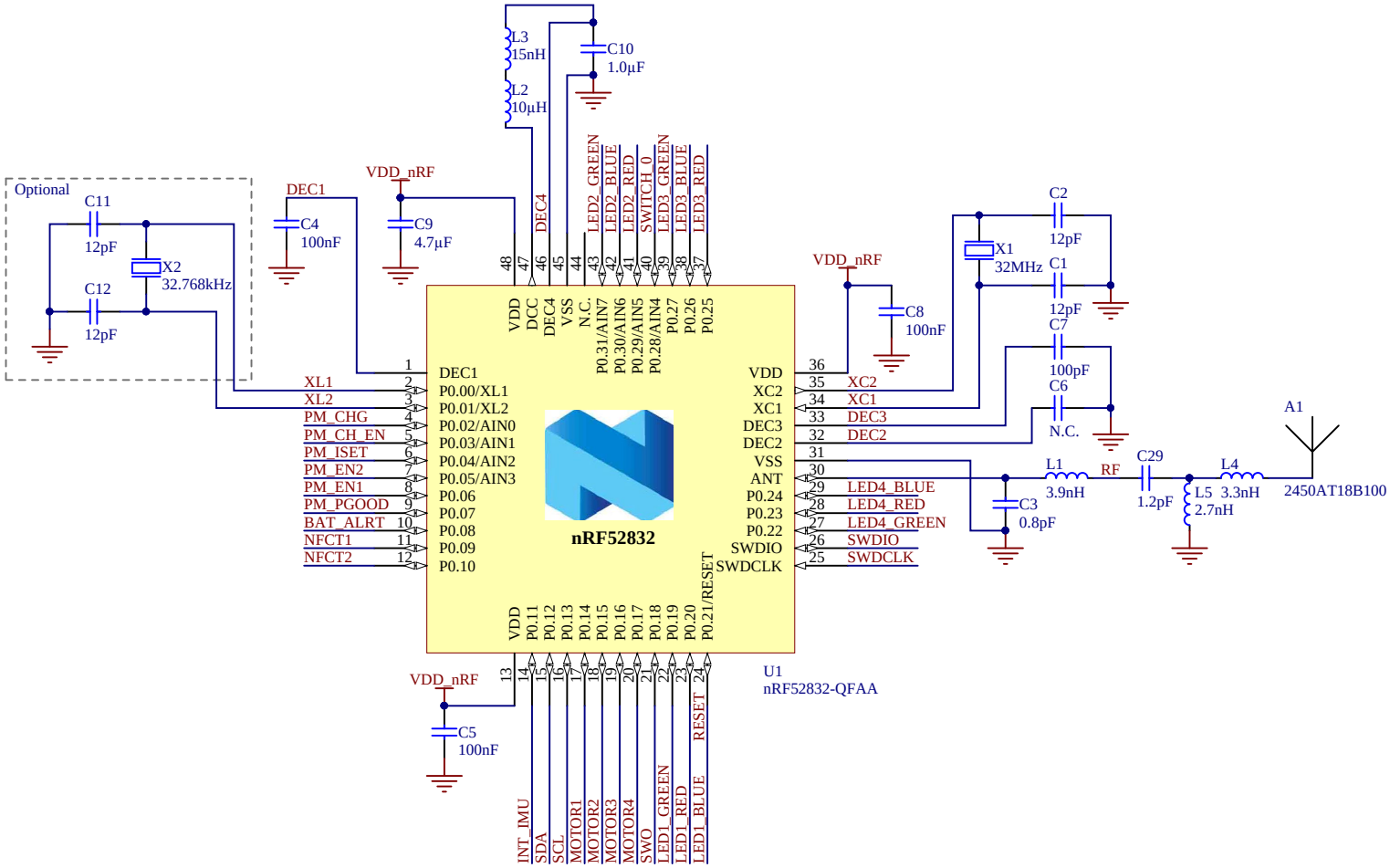
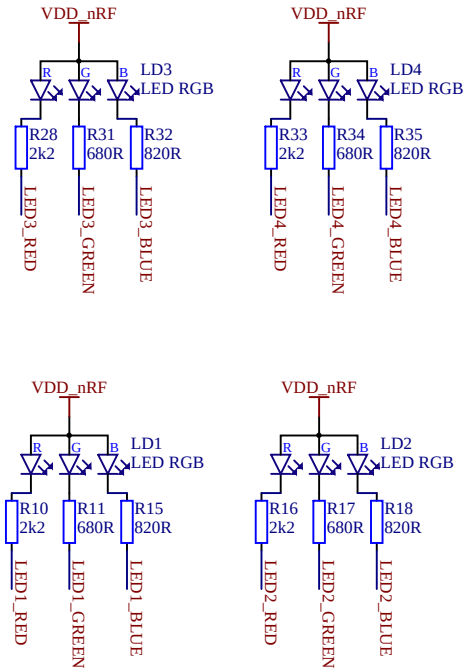
MCU

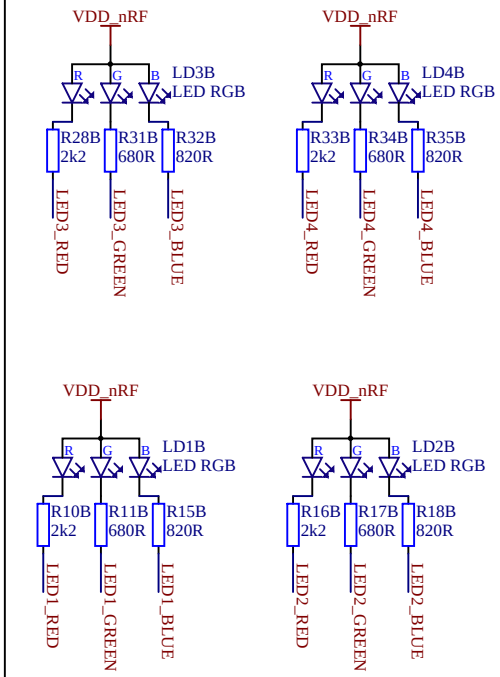


Title: nRF52 Quadcopter - MCU		
Size: A4	Project Number: 4425	Revision: 1.0.0
Date: 12.08.2016		Sheet 1 of 5
File: pca20017_mcu.SchDoc		Drawn By: ERHE

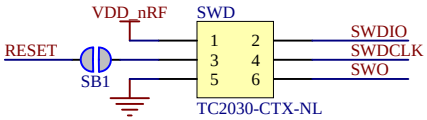
LEDs Top



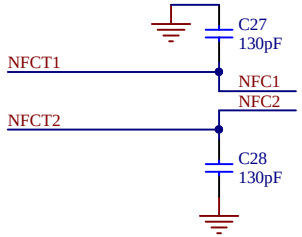
LEDs Bottom



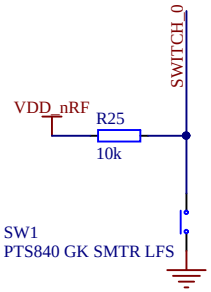
Debug In



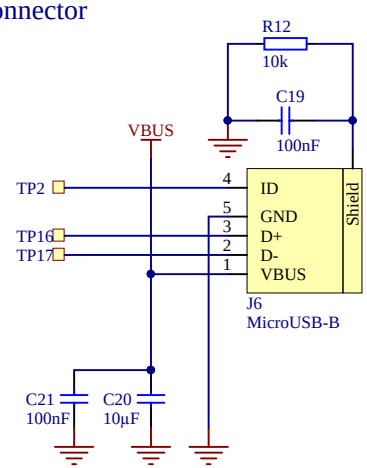
NFCT Antenna



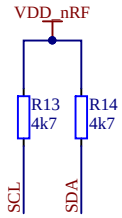
User Switch



USB Connector



I2C Pull-ups

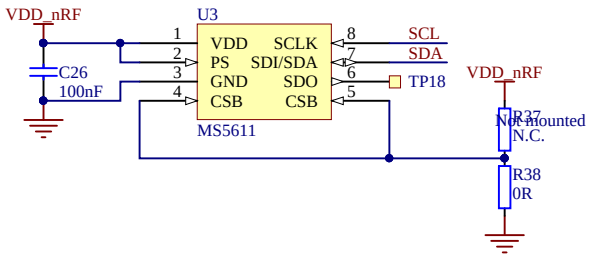


Nordic Logo M

Title: nRF52 Quadcopter - Misc		
Size: A4	Project Number: 4425	Revision: 1.0.0
Date: 12.08.2016		Sheet 2 of 5
File: pca20017_misc.SchDoc		Drawn By: ERHE

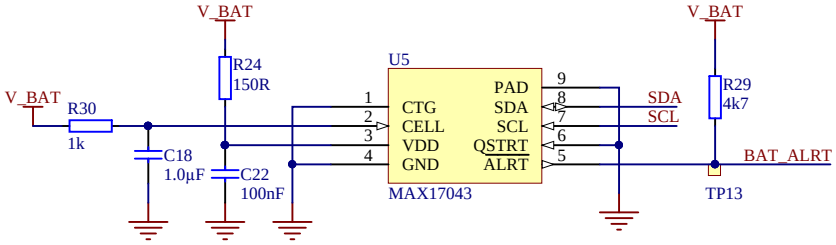
Barometer 1

CSB | I2C Address
0 | 0x77
1 | 0x78



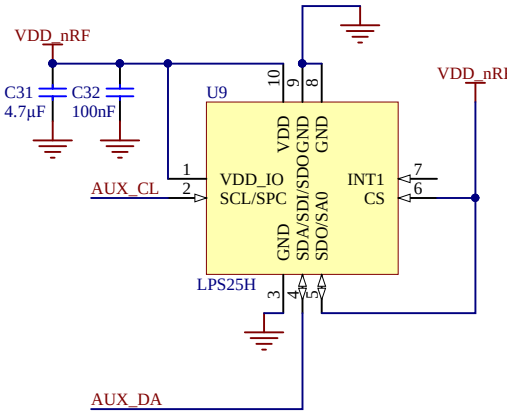
Fuel Guage

I2C Address - 0x34



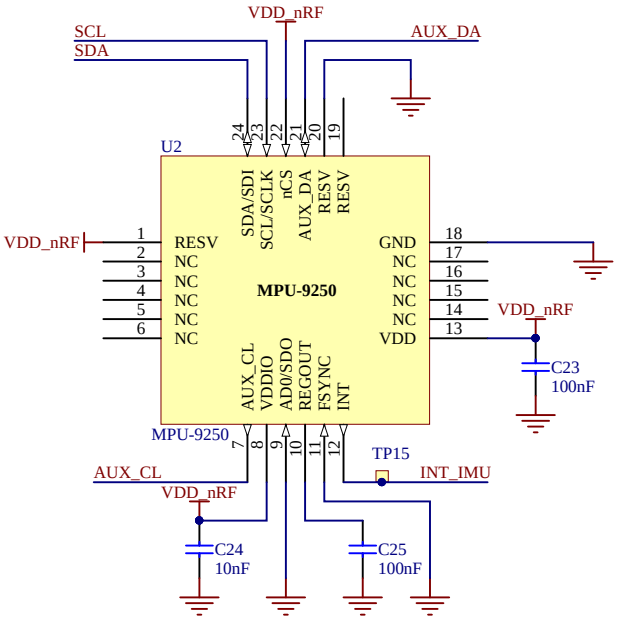
Barometer 2

I2C Address - 0xB8



IMU 9-DOF

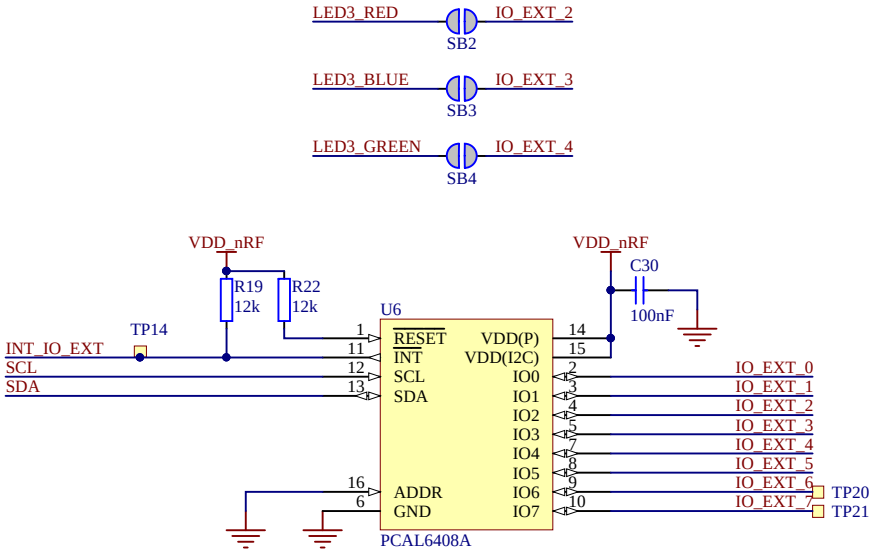
I2C Address - 0x68



IO Extender

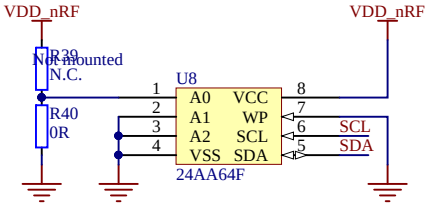
I2C Address - 0x20

Disable LEDs to give access to nRF52 GPIO



EEPROM

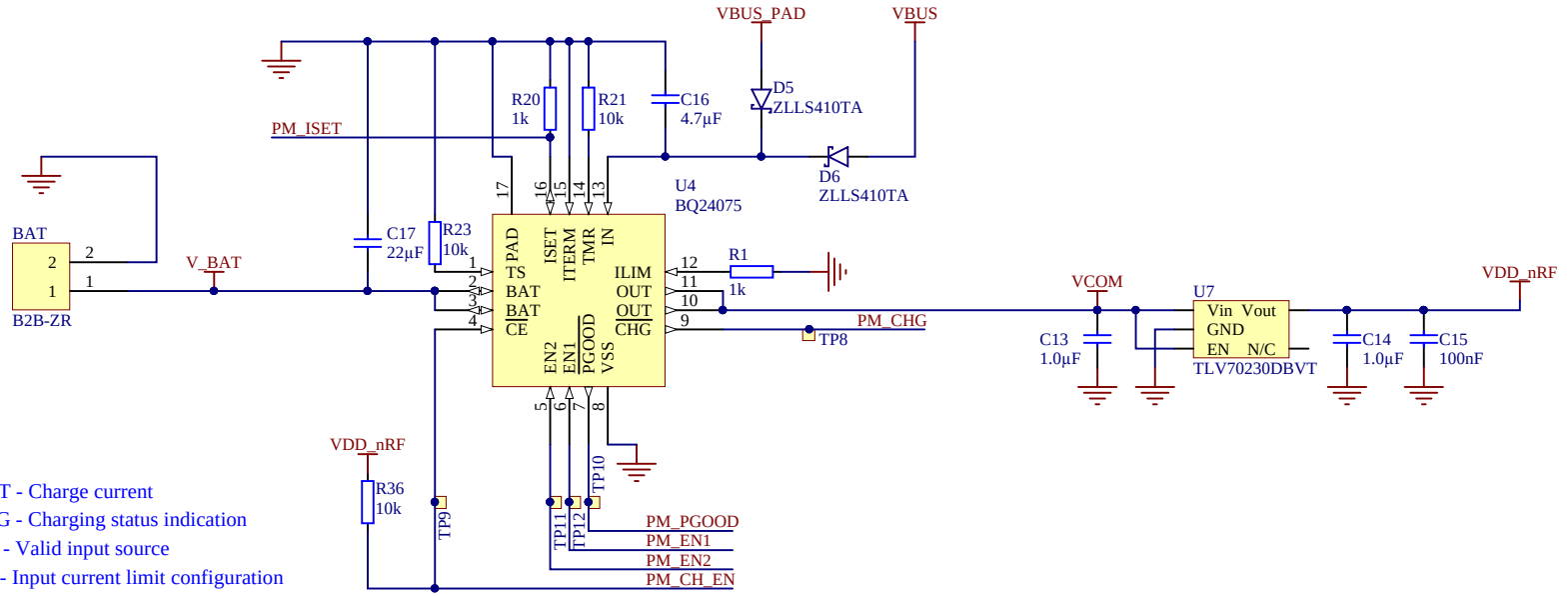
A[2:0] | I2C Address
000 | 0x50
001 | 0x51



Title: nRF52 Quadcopter - Sensors		
Size: A4	Project Number: 4425	Revision: 1.0.0
Date: 12.08.2016		Sheet 3 of 5
File: pca20017_sensors.SchDoc		Drawn By: ERHE

NORDIC SEMICONDUCTOR

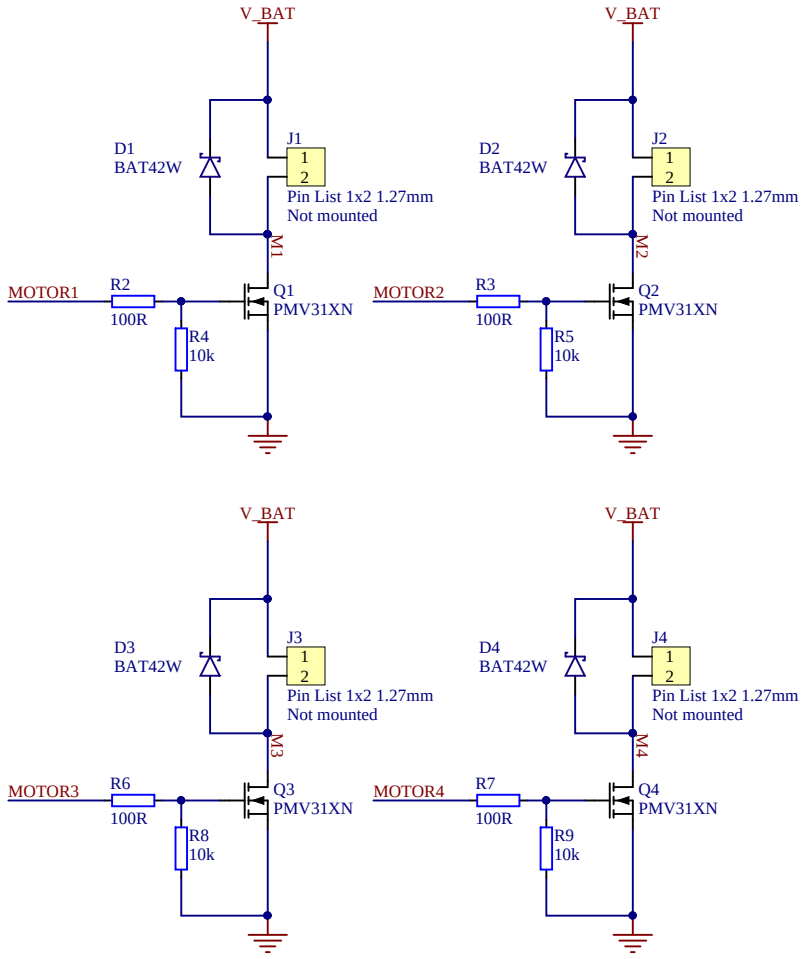
Power System



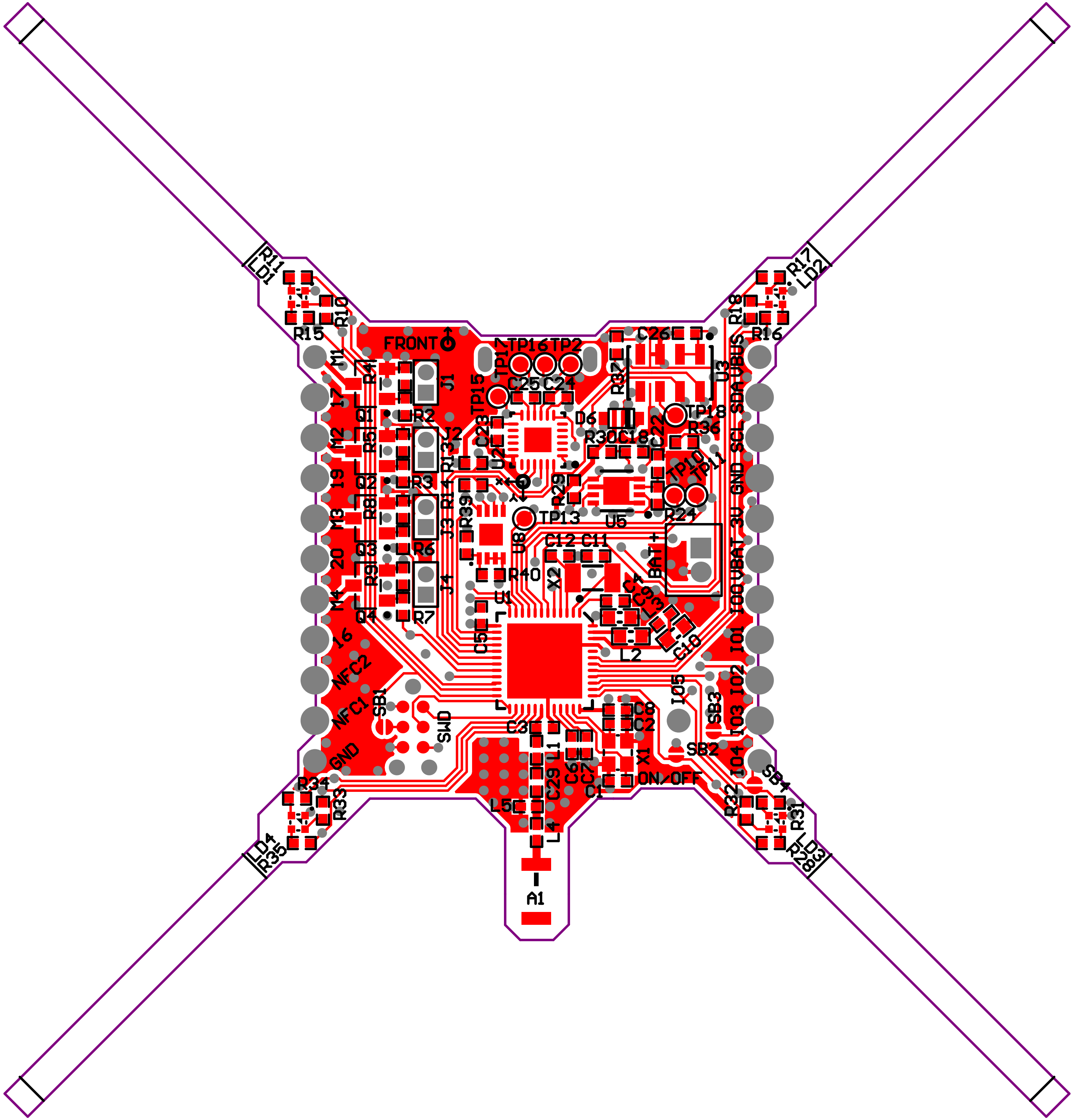
PM_ISET - Charge current
PM_CHG - Charging status indication
PGOOD - Valid input source
PM_EN - Input current limit configuration
PM_CH_EN - Charge enable

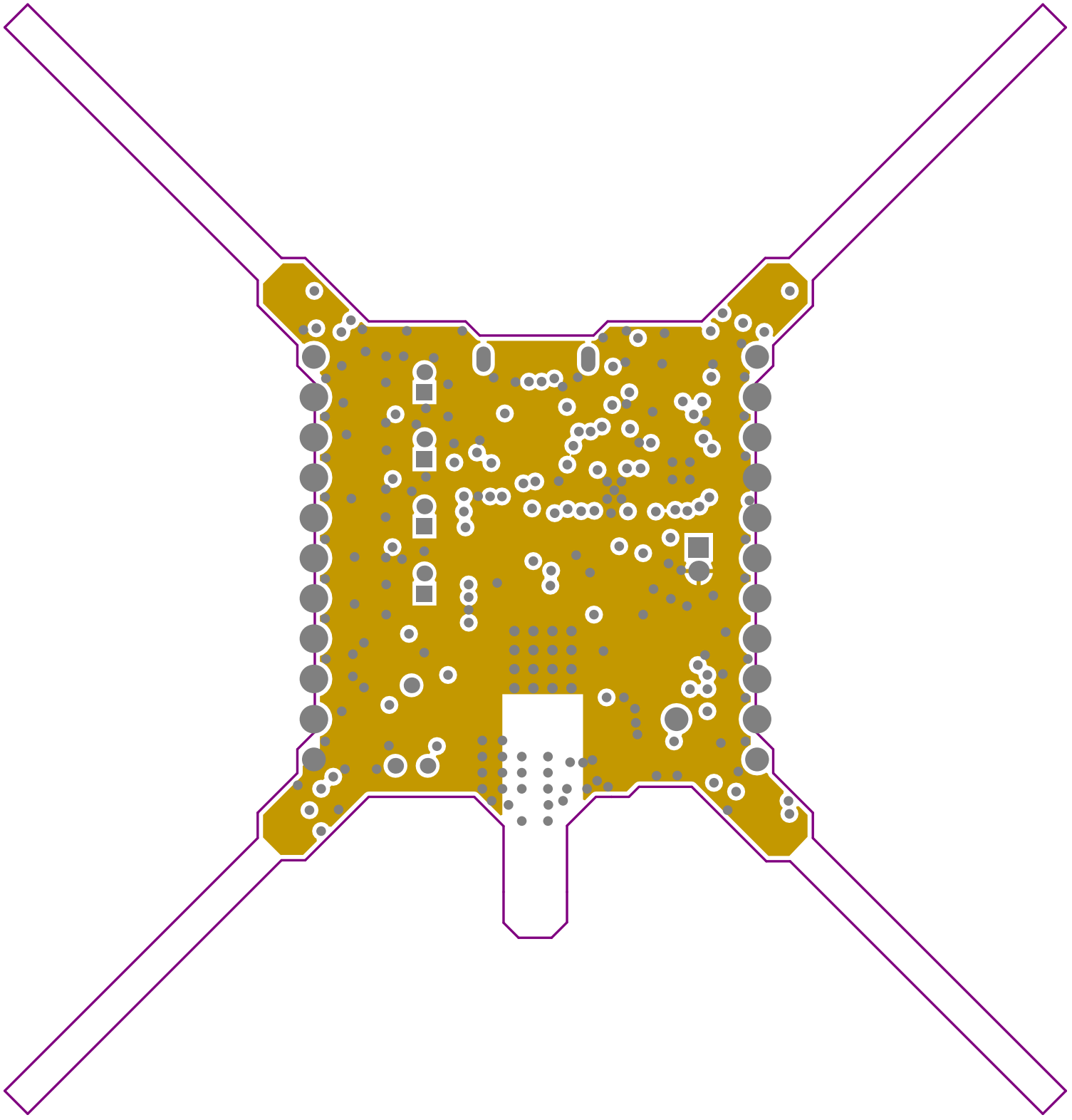
Title: nRF52 Quadcopter - Power		
Size: A4	Project Number: 4425	Revision: 1.0.0
Date: 12.08.2016		Sheet 4 of 5
File: pca20017_power.SchDoc		Drawn By: ERHE

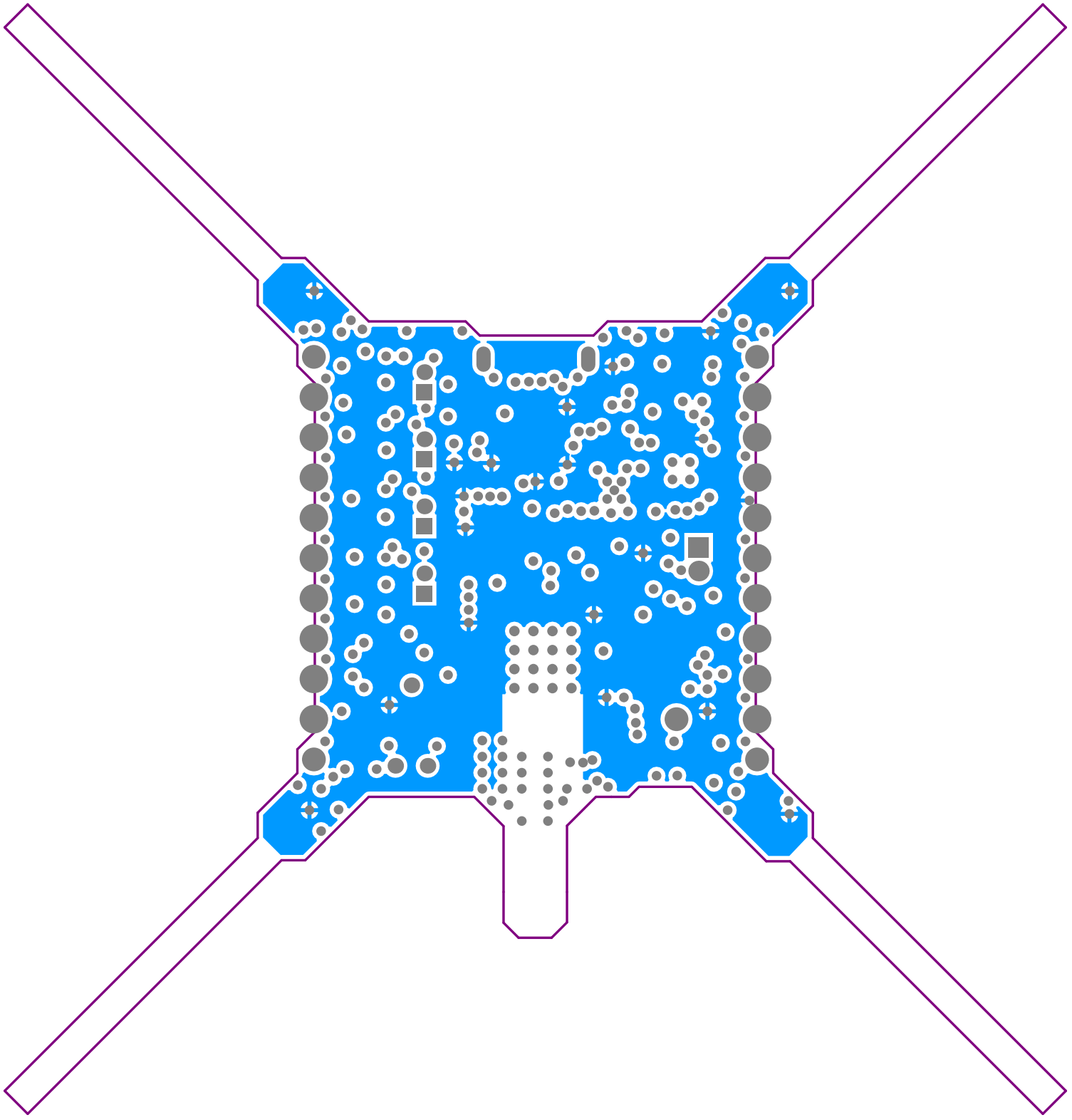
Motor System

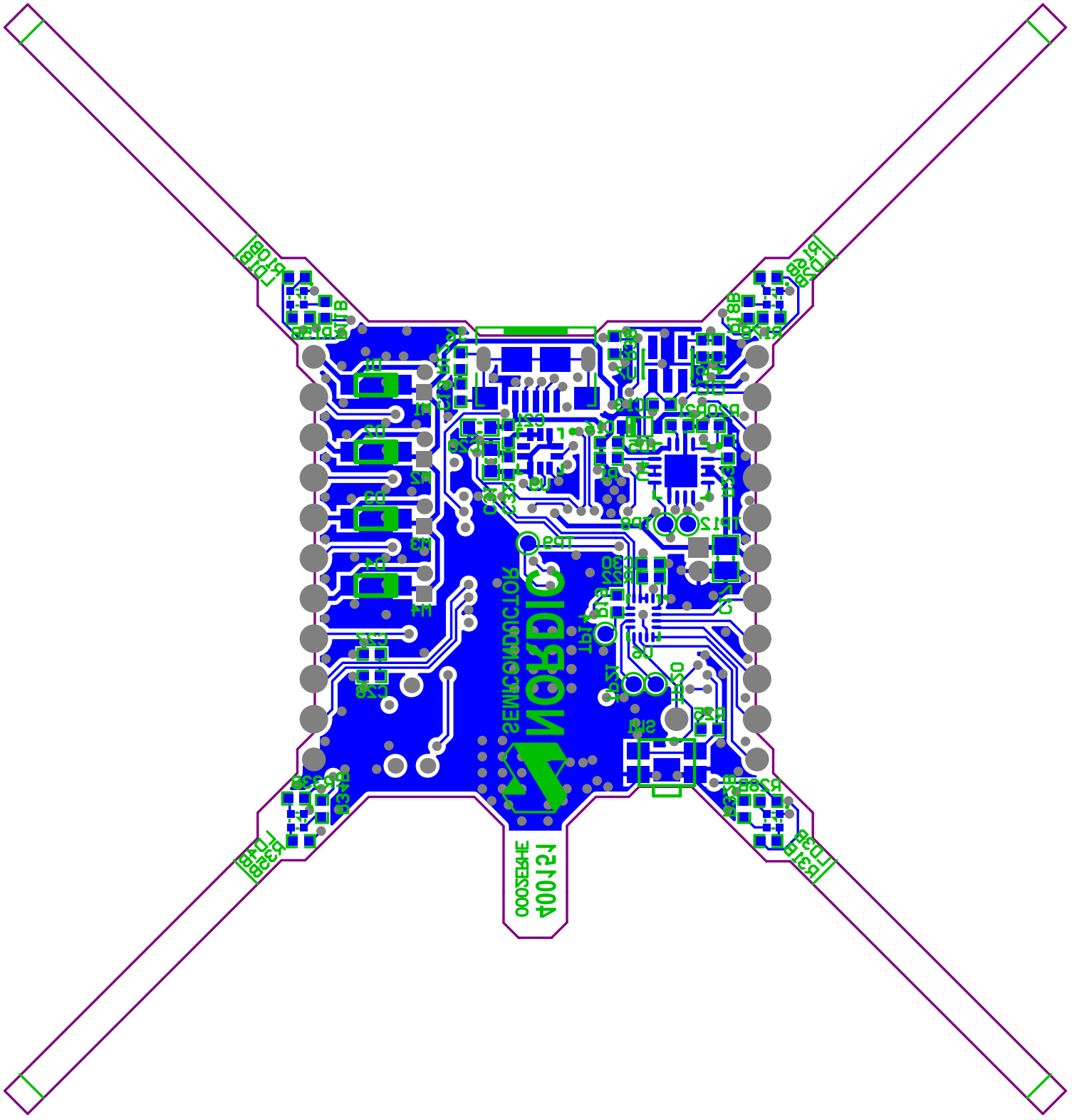


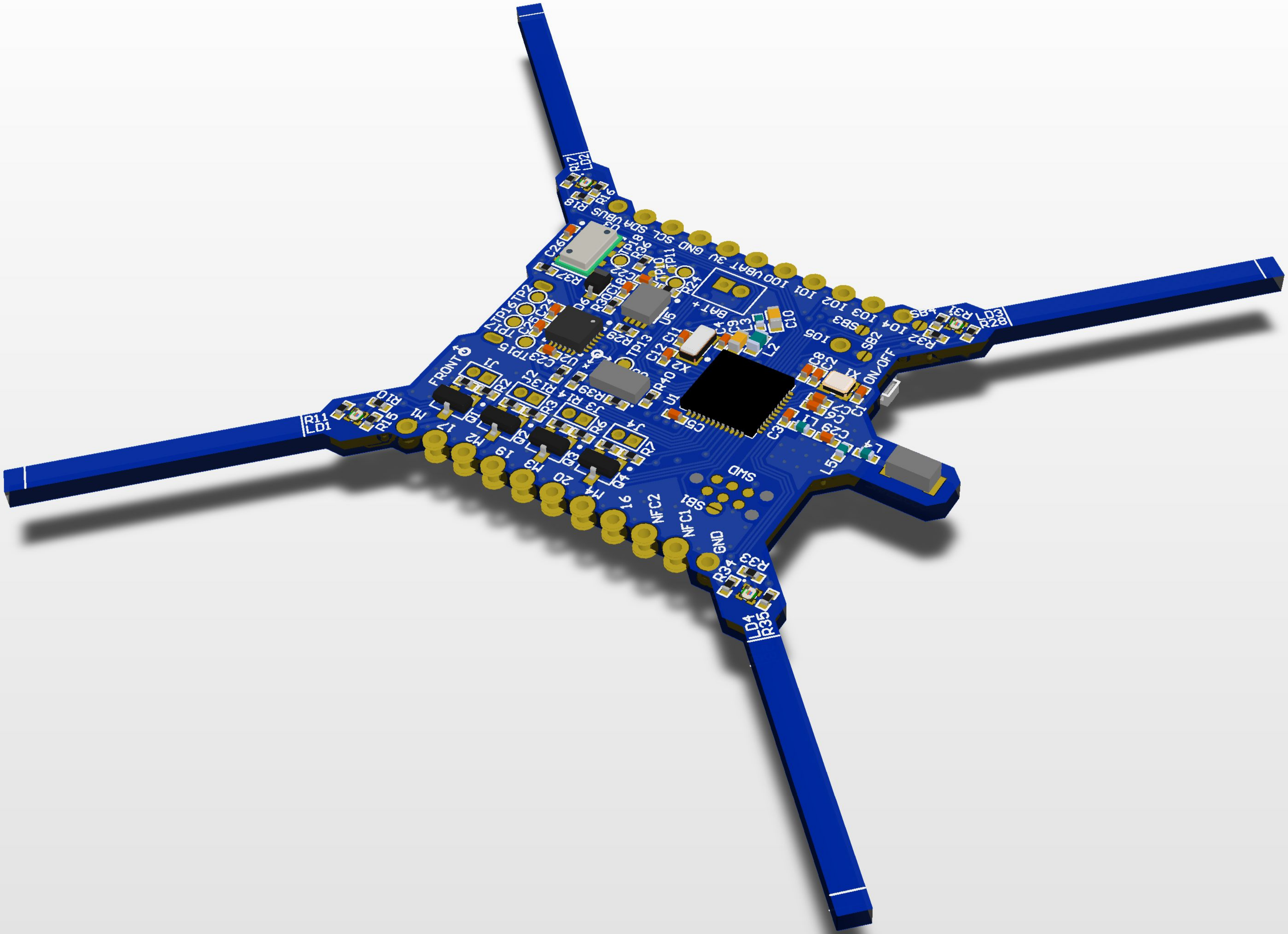
Title: nRF52 Quadcopter - Motors		
Size: A4	Project Number: 4425	Revision: 1.0.0
Date: 12.08.2016		Sheet 5 of 5
File: pca20017_motors.SchDoc		Drawn By: ERHE


FRONT
TP17
TP16
TP2
TP15
C25
C24
C26
R37
U3
VBUS
SDA
SCL
GND
3V
VBAT
IO0
IO1
IO2
IO3
IO4
IO5
M1
17
M2
19
M3
20
M4
16
NFC2
NFC1
GND
Q1
Q2
Q3
Q4
R4
R5
R8
R9
R2
R3
R6
R7
J1
J2
J3
J4
R13
R14
R39
U2
U8
TP13
R40
U1
C5
C23
D6
R30
C18
C22
TP18
R36
TP10
TP11
R29
U5
R24
C12
C11
X2
BAT+
C4
C9
L3
C10
L2
SB1
SWD
SB2
SB3
SB4
C3
L1
C8
C2
X1
ON/OFF
C29
C6
C7
C1
L5
L4
A1
R11
LD1
R10
R15
R17
LD2
R18
R16
R34
R33
LD4
R35
R32
R31
LD3
R28






nRF9151
SEMICONDUCTOR


FRONT
SWD
ON/OFF
GND
NFC1
NFC2
SDA
SCL
VBUS
VBAT
BAT+