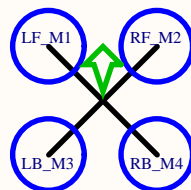
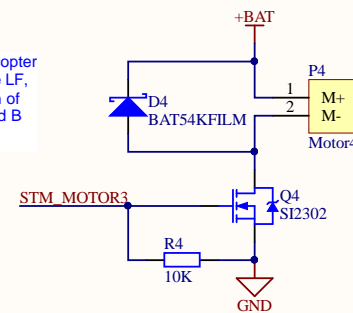
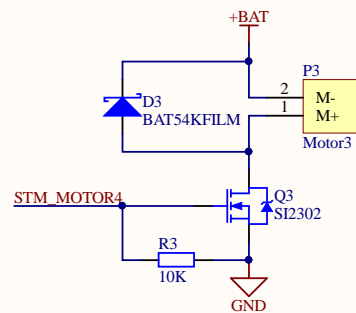
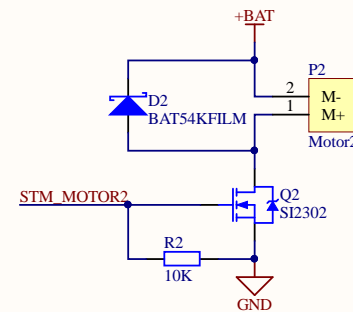
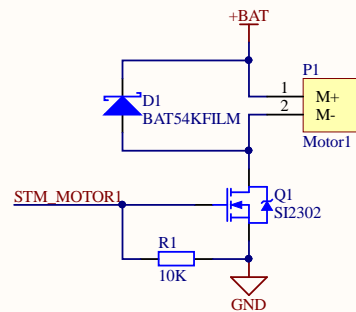


The contents of the dotted box indicate the other functions of the pin, which can be set by the program.

Title Breeze Quadcopter			Team MicroDynamics
Size: A4	Author: myyerrol	Revision: V0.1	NWPU
Date: 3/5/2017	Time: 19:38:22	Sheet 1 of 5	Xi'an
File: breeze_controller.SchDoc			Shannxi
			China





According to the upper image, Breeze Quadcopter's motors have their own special number. The LF, LB, RF and RB represent the relative location of motor. L and R imply the Left and Right, F and B imply the Front and Back.

Title Breeze Quadcopter			Team MicroDynamics NWPU Xi'an Shannxi China	<div>\$>{MD}</div>
Size: A4	Author: myyerrol	Revision: V0.1		
Date: 3/5/2017	Time: 19:38:22	Sheet 2 of 5		
File: breeze_motor.SchDoc				



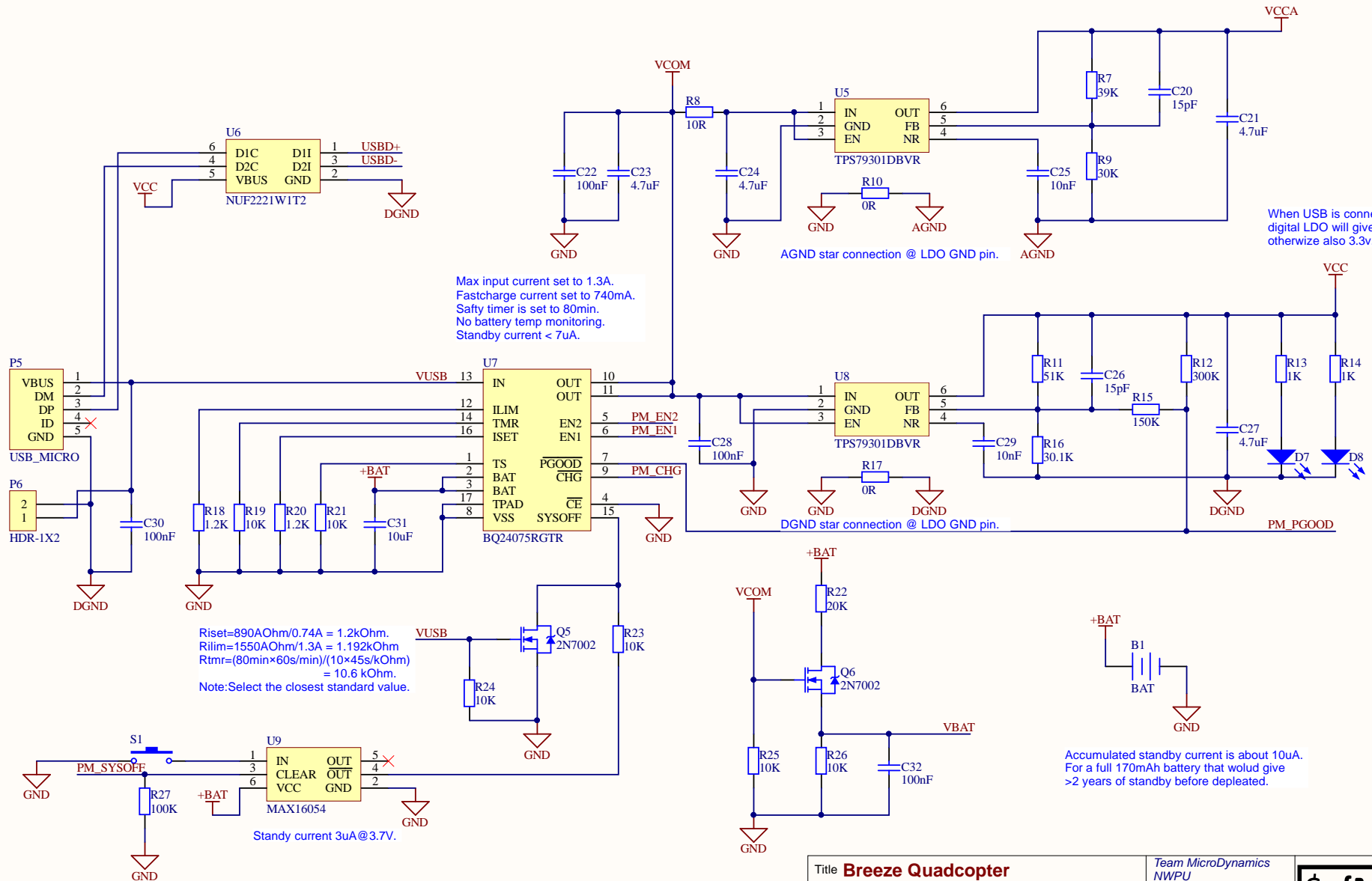
1

2

3

4

Analog LDO configured to 2.8V.

Title **Breeze Quadcopter**

Size: A4

Author: myyerrrol

Revision: V0.1

Date: 3/5/2017

Time: 19:38:22

Sheet 3 of 5

File: breeze_power.SchDoc

Team MicroDynamics
NWPU
Xi'an
Shannxi
China

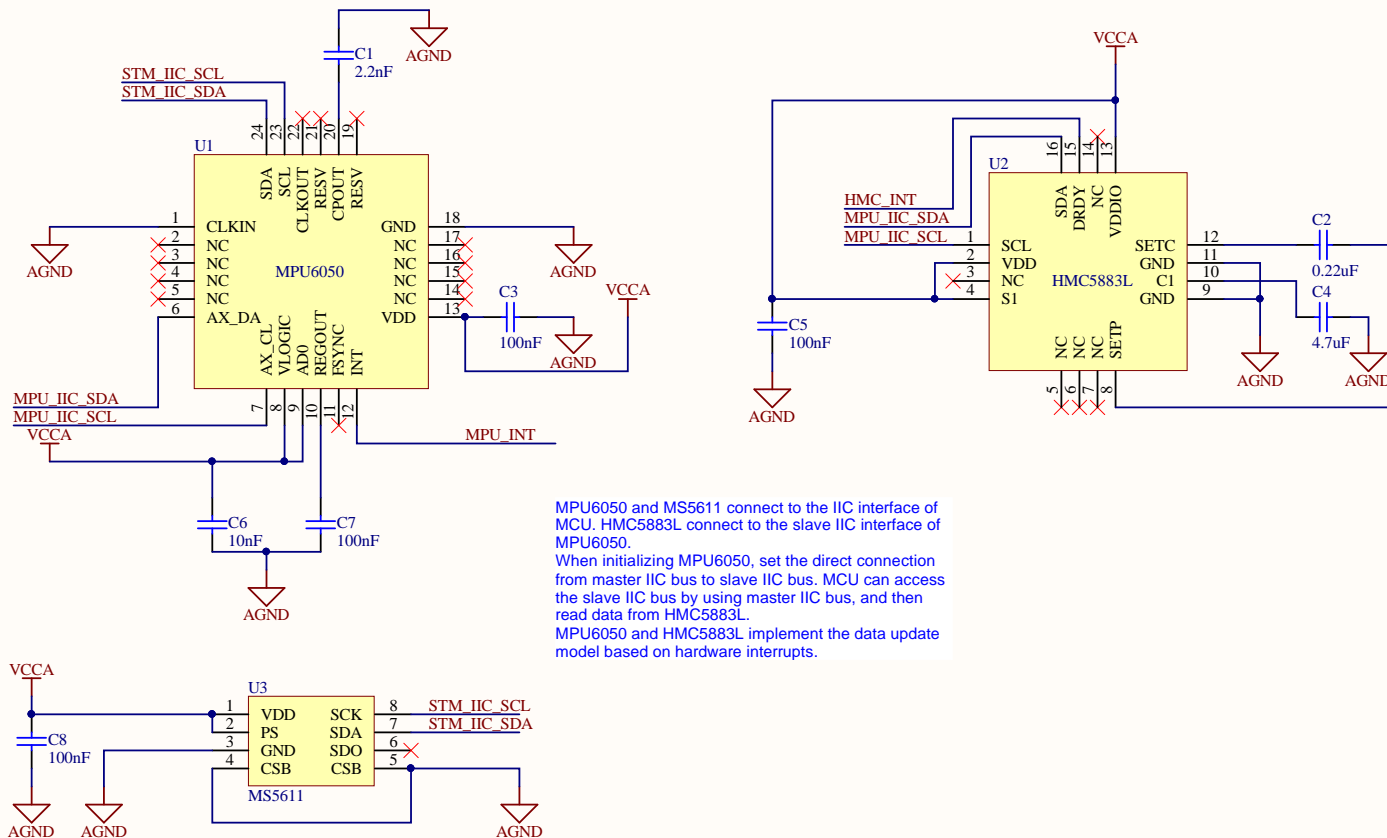
\$>{MD}

1

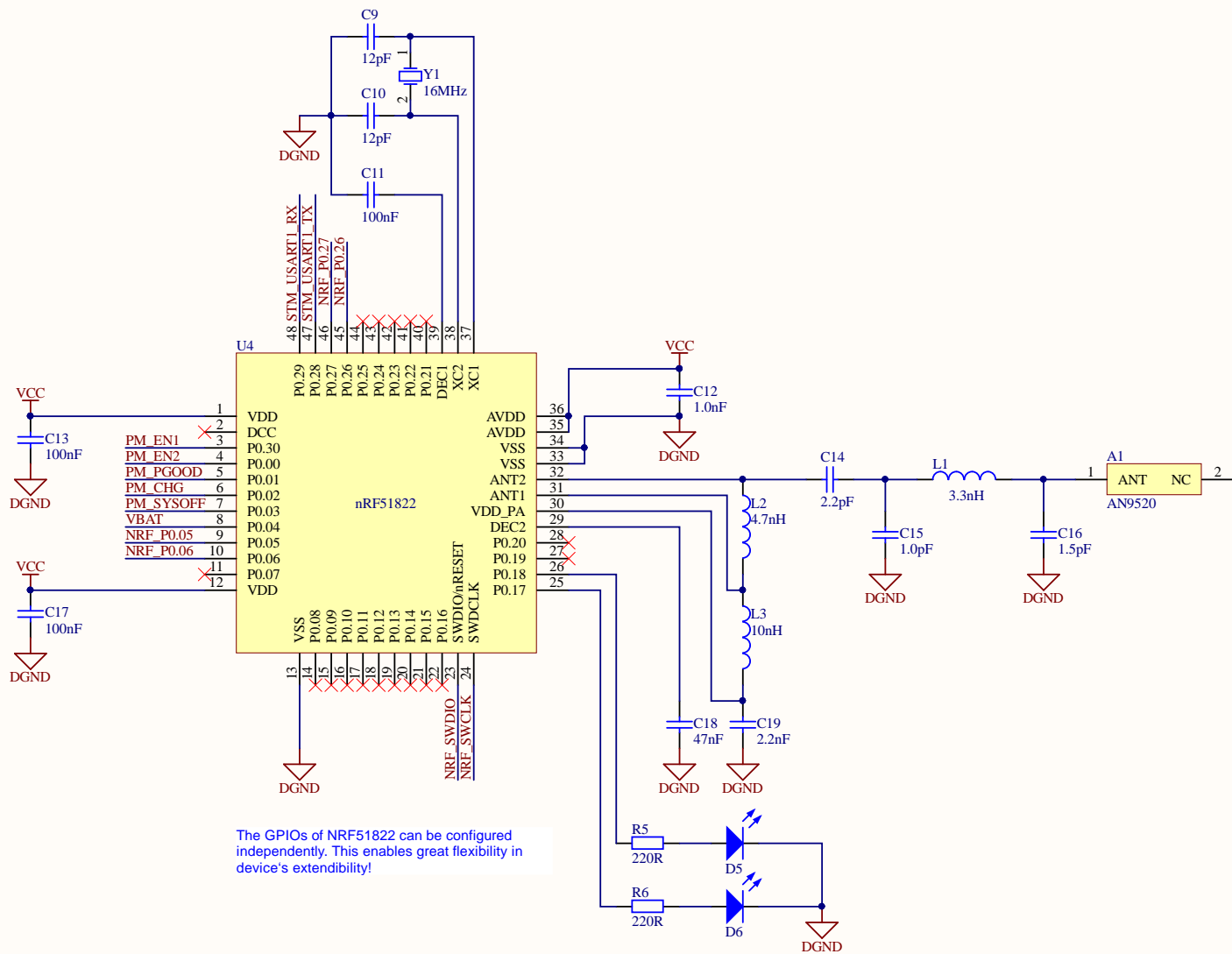
2

3

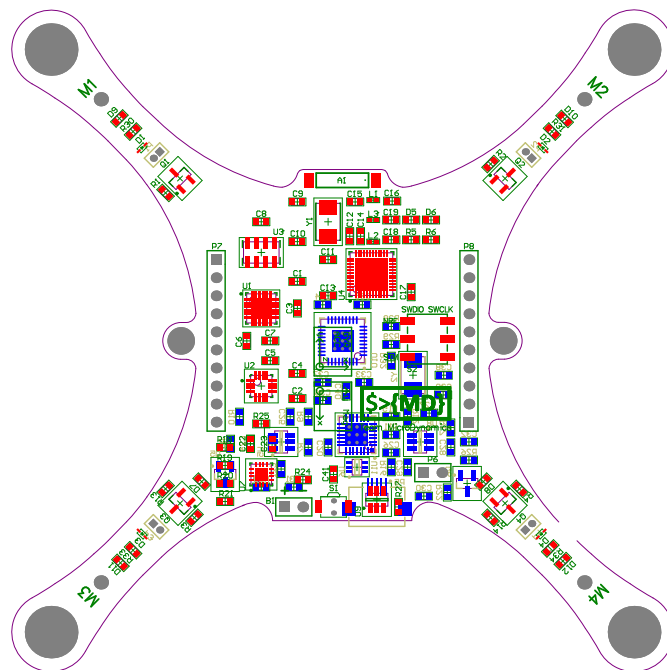
4



Title Breeze Quadcopter			Team MicroDynamics NWPU Xi'an Shannxi China	<div>\$>{MD}</div>
Size: A4	Author: myyerrol	Revision: V0.1		
Date: 3/5/2017	Time: 19:38:23	Sheet 4 of 5		
File: breeze_sensor.SchDoc				



Title Breeze Quadcopter			Team <i>MicroDynamics</i> NWPU Xi'an Shannxi China	<div>\$>{MD}</div>
Size: A4	Author: myyerrol	Revision: V0.1		
Date: 3/5/2017	Time: 19:38:23	Sheet 5 of 5		
File: breeze_wireless.SchDoc				



<div data-bbox="993 1261 1226 1349" data-label="Image"> </div> <div data-bbox="1001 1362 1201 1442" data-label="Text"> <p>Team MicroDynamics NWPU Xi'an, Shannxi China</p> </div>	Author: myyerrol	Title: Breeze Quadcopter
	Time: 19:38:23	
	Date: 3/5/2017	File Content: Cheap, easy-to-use and intelligent quadcopter.
	Revision: V0.1	File Name: breeze_pcb.PcbDoc

Bill of Materials

Breeze Quadcopter

Source Data From: breeze_electronics_design.PrjPcb
 Project: breeze_electronics_design.PrjPcb
 Variant: None

Creation Date: 3/5/2017 19:38:25
 Print Date: 05-Mar-17 7:38:30 PM

Footprint	Comment	LibRef	Designator	Description	Quantity
AN9520	AN9520	AN9520	A1	2.4GHz Wireless Communication Antenna	1
HDR-1X2	BAT	BAT	B1	Battery	1
SMD-0603	CAP-0603	CAP-0603	C1, C2, C3, C4, C5, C6, C7, C8, C9, C10, C11, C12, C13, C14, C15, C16, C17, C18, C19, C20, C21, C22, C23, C24, C25, C26, C27, C28, C29, C30, C31, C32, C33, C34, C35, C36, C37, C38, C39, C40, C41	Capacitor	41
SOD-523	BAT54KFILM	BAT54KFILM	D1, D2, D3, D4	Schottky Diode	4
SMD-0603	LED-0603	LED-0603	D5, D6, D7, D8, D9, D10, D11, D12	LED	8
SMD-0402	IND-0402	IND-0402	L1, L2, L3	Inductor	3
HDRM-1X2	Motor1	Motor_A	P1	Motor Header	1
HDRM-1X2	Motor2	Motor_B	P2	Motor Header	1
HDRM-1X2	Motor3	Motor_B	P3	Motor Header	1
HDRM-1X2	Motor4	Motor_A	P4	Motor Header	1
USB_MICRO	USB_MICRO	USB_MICRO	P5	Micro USB	1
HDR-1X2	HDR-1X2	HDR-1X2	P6	Header 1X2	1
HDR-1X10	HDR-1X10	HDR-1X10	P7, P8	Header 1X10	2
SOT-23	SI2302	SI2302	Q1, Q2, Q3, Q4	N-Channel Enhancement Mode Field Effect Transistor	4
SOT-23	2N7002	2N7002	Q5, Q6	N-Channel Enhancement Mode Field Effect Transistor	2
SMD-0603	RES-0603	RES-0603	R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11, R12, R13, R14, R15, R16, R17, R18, R19, R20, R21, R22, R23, R24, R25, R26, R27, R28, R29, R30, R31, R32, R33, R34	Resistor	34
SKRELGE010	SKRELGE010	SKRELGE010	S1	Switch	1
MSS-22D18G2	MSS-22D18G2	MSS-22D18G2	S2	Double-Pole, Double-Throw Switch	1
QFN-24	MPU6050	MPU6050	U1	6-axis Motion Tracking IC	1
LPCC-16	HMC5883L	HMC5883L	U2	3-Axis Digital Compass IC	1
MS5611	MS5611	MS5611	U3	High Resolution Altimeter IC	1
QFN-48	nRF51822	nRF51822	U4	Multiprotocol Bluetooth 4.0 low energy/2.4 GHz RF SoC	1
SOT-23-6	TPS79301DBVR	TPS79301DBVR	U5, U8	200-mA RF Low-Dropout Regulator	2
SOT-363	NUF2221W1T2	NUF2221W1T2	U6	USB Upstream Terminator with ESD Protection	1
VQFN-16	BQ24075RGTR	BQ24075RGTR	U7	1.5-A USB-Friendly Li-Ion Battery Charger and Power-Path Management IC	1
SOT-23-6	MAX16054	MAX16054	U9	On/Off Controller with Debounce and ±15kV ESD Protection	1
VFQFPN-36	STM32F103T6U6	STM32F103T6U6	U10	ARM Cortex-M3 MCU	1
QFN-28	CP2102	CP2102	U11	Highly-integrated USB-to-UART Bridge Controller	1
SMD-5032	XTAL-5032	XTAL-5032	Y1, Y2	Passive Crystal Oscillator	2
					121

Approved	Notes