

Note: ESC connection for Quad X config is different:

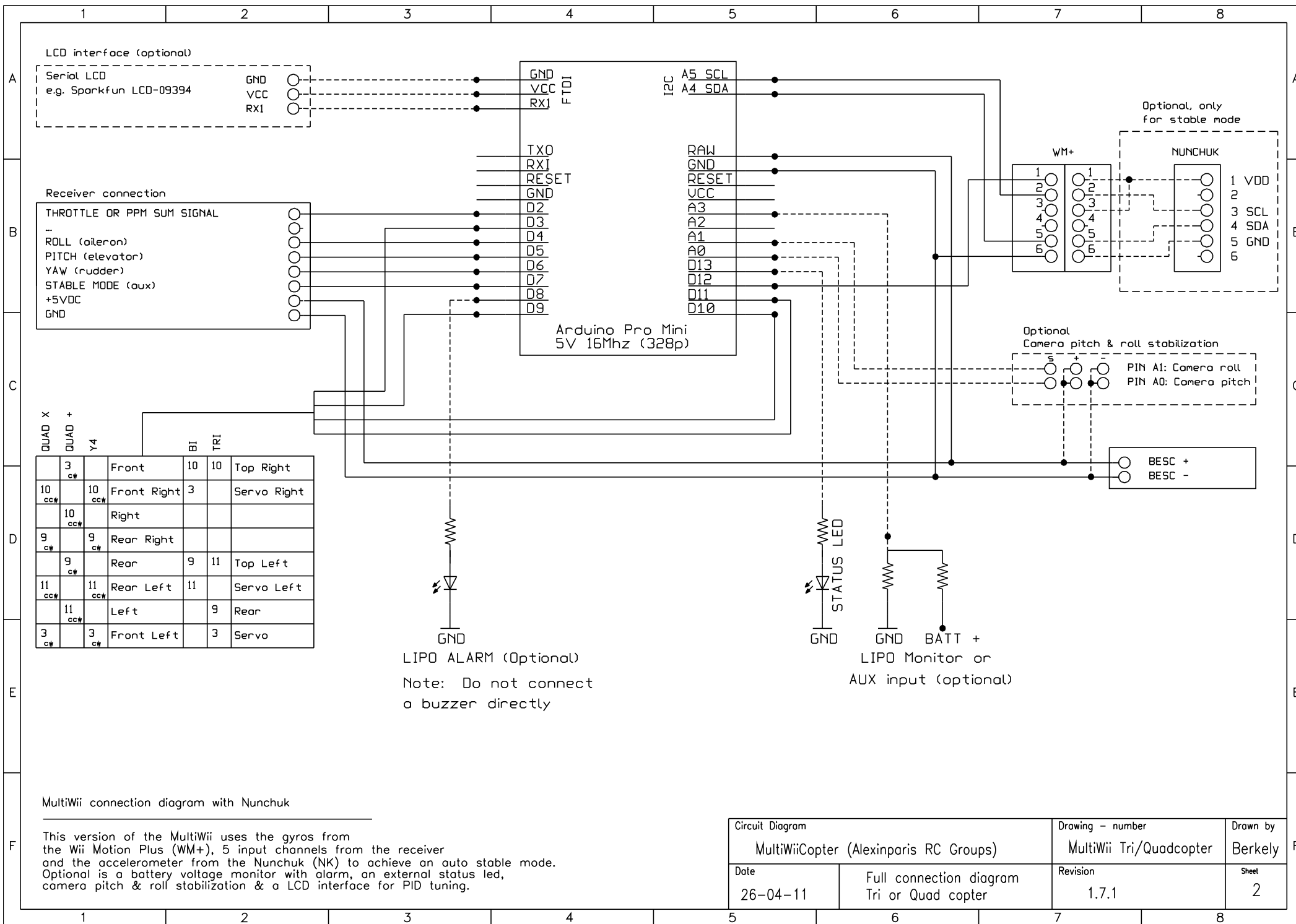
PIN 3: Front left motor (cw)
 PIN 9: Rear right motor (cw)
 PIN 10: Front right motor (ccw)
 PIN 11: Rear left motor (ccw)

(*) BESC GND & + wires should not be connected in parallel.
 The dashed line is for the supply of the servo only.
 In a quad config it must not be connected.

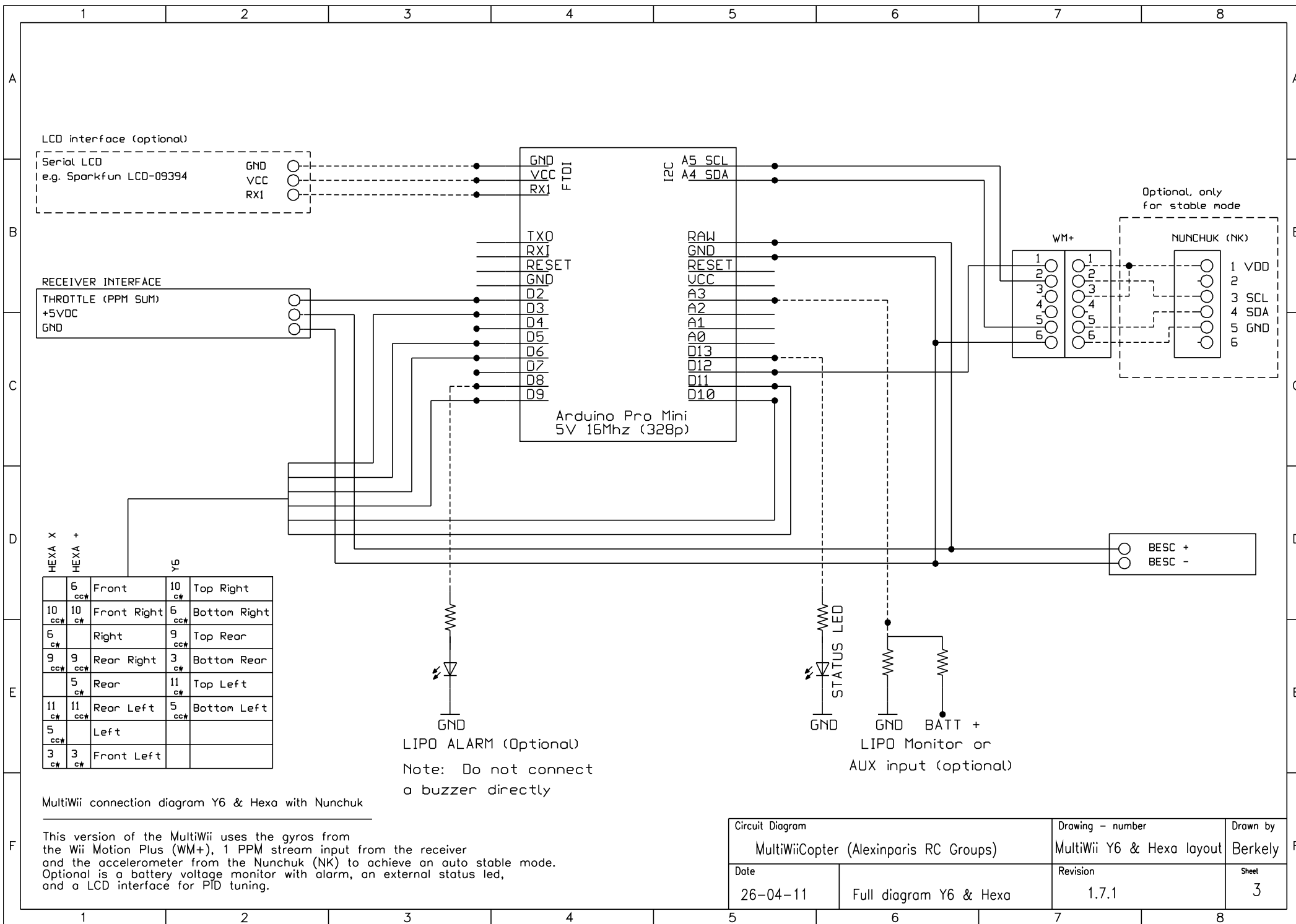
Basic MultiWii connection diagram:

This is the most basic version of the MultiWii, it uses only the gyros from the Wii Motion Plus (WM+) and 4 input channels from the receiver.

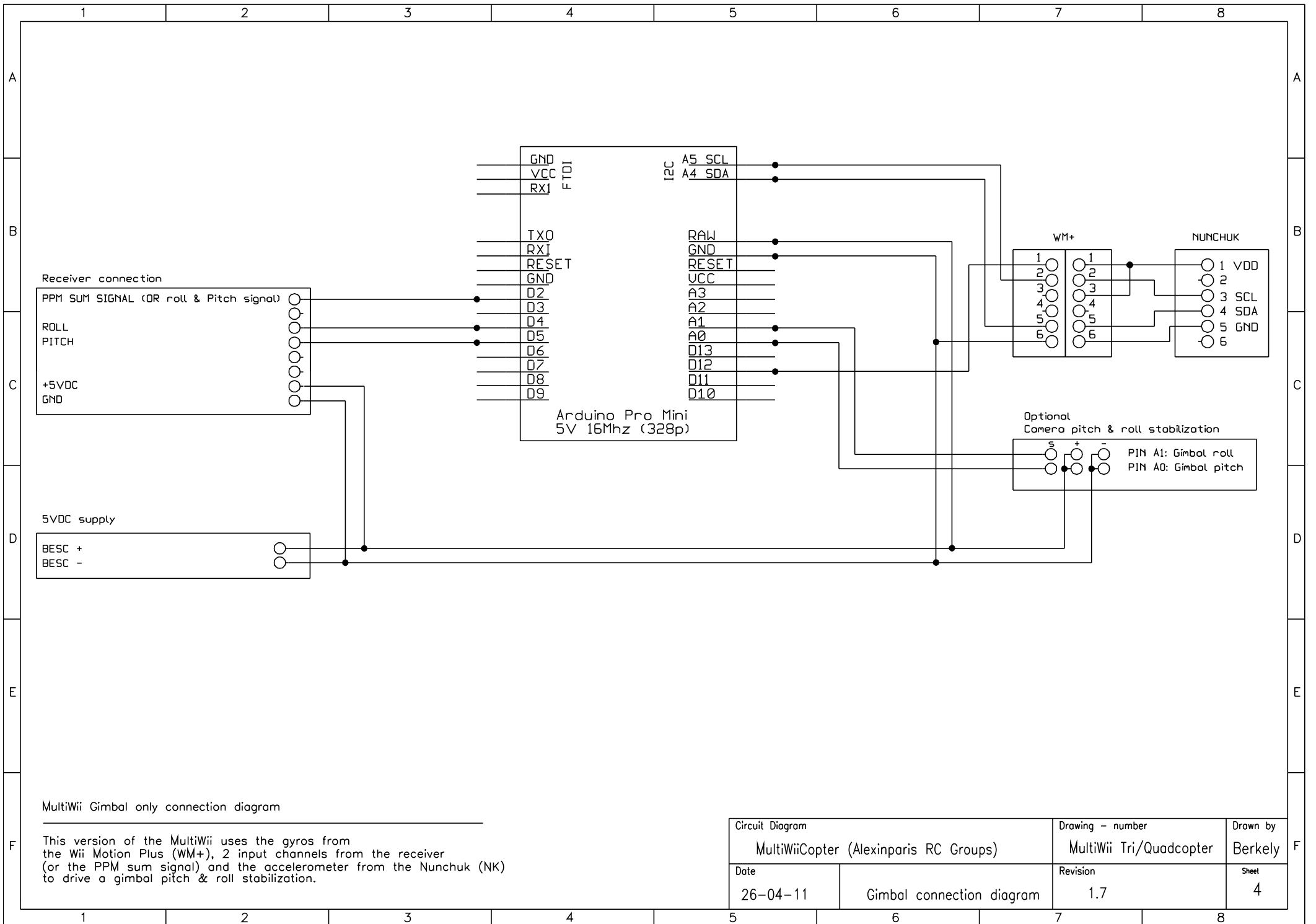
Circuit Diagram		Drawing - number		Drawn by	
MultiWiiCopter (Alexinparis RC Groups)		MultiWii Tri/Quadcopter		Berkely	
Date	BASIC connection diagram	Revision	Sheet		
26-04-11	Tri or Quad copter	1.7.1	1		

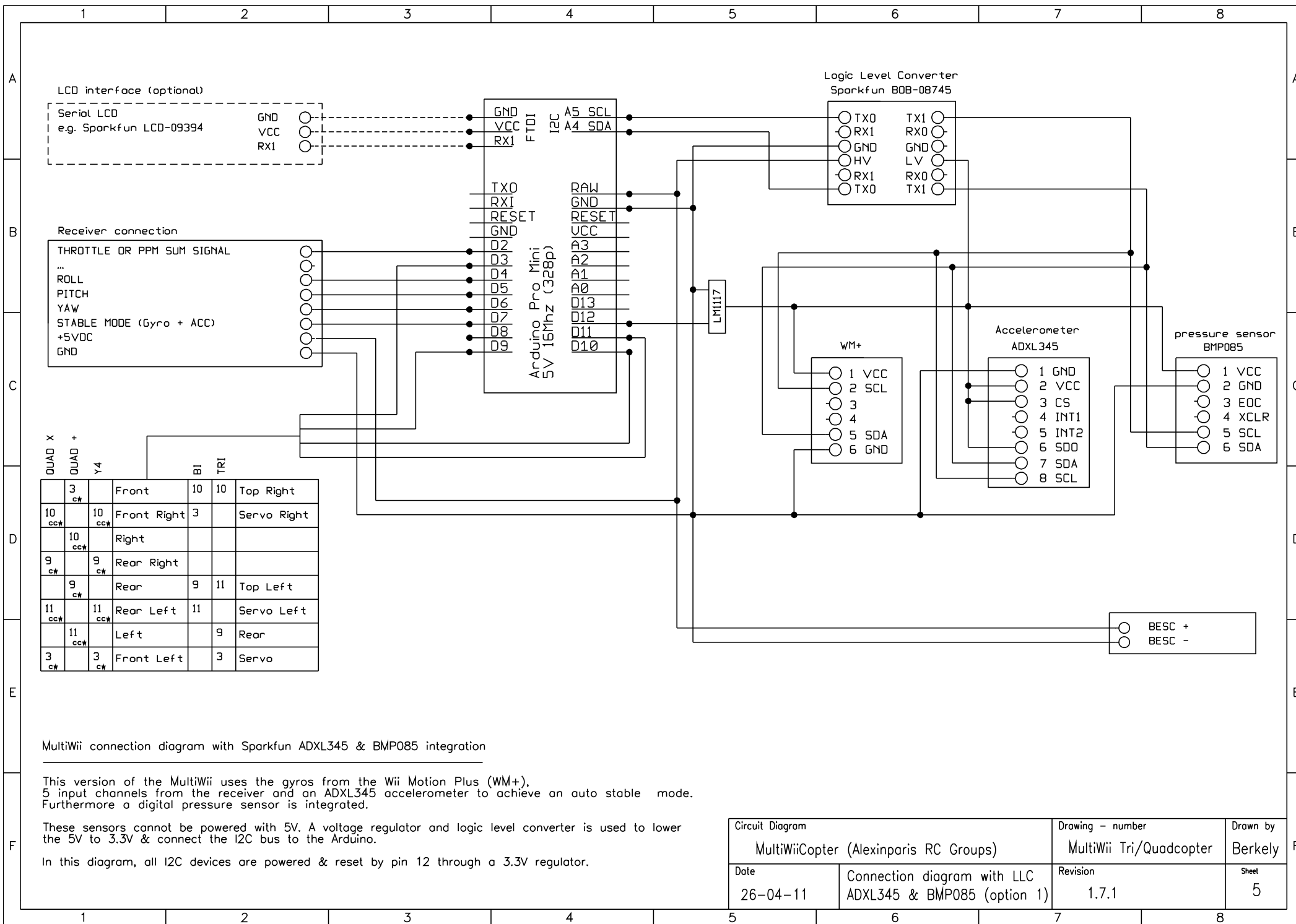


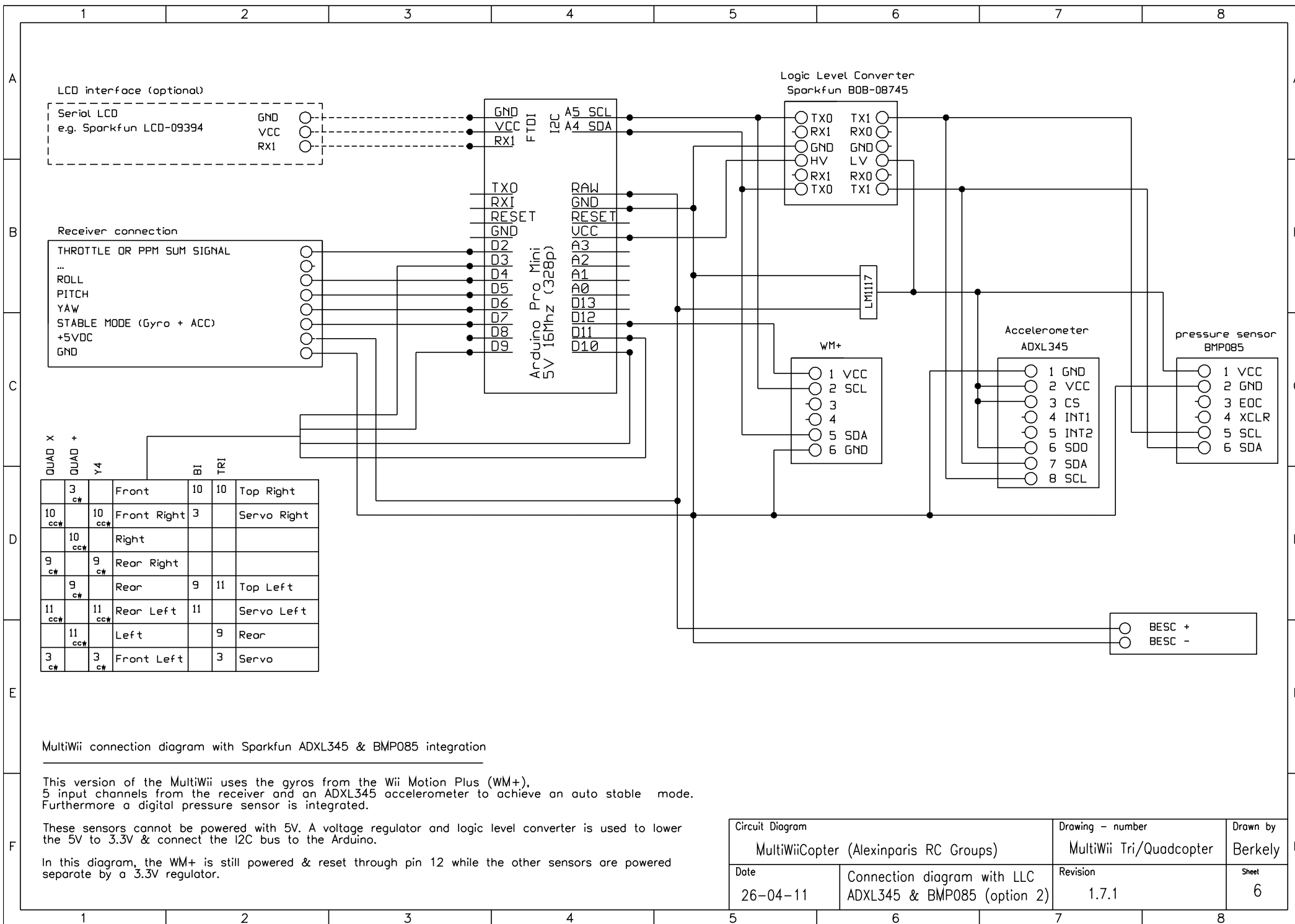
Circuit Diagram		Drawing - number	Drawn by
MultiWiiCopter (Alexinparis RC Groups)		MultiWii Tri/Quadcopter	Berkely
Date	Full connection diagram Tri or Quad copter	Revision	Sheet
26-04-11		1.7.1	2



Circuit Diagram		Drawing - number	Drawn by
MultiWiiCopter (Alexinparis RC Groups)		MultiWii Y6 & Hexa layout	Berkely
Date		Revision	Sheet
26-04-11	Full diagram Y6 & Hexa	1.7.1	3







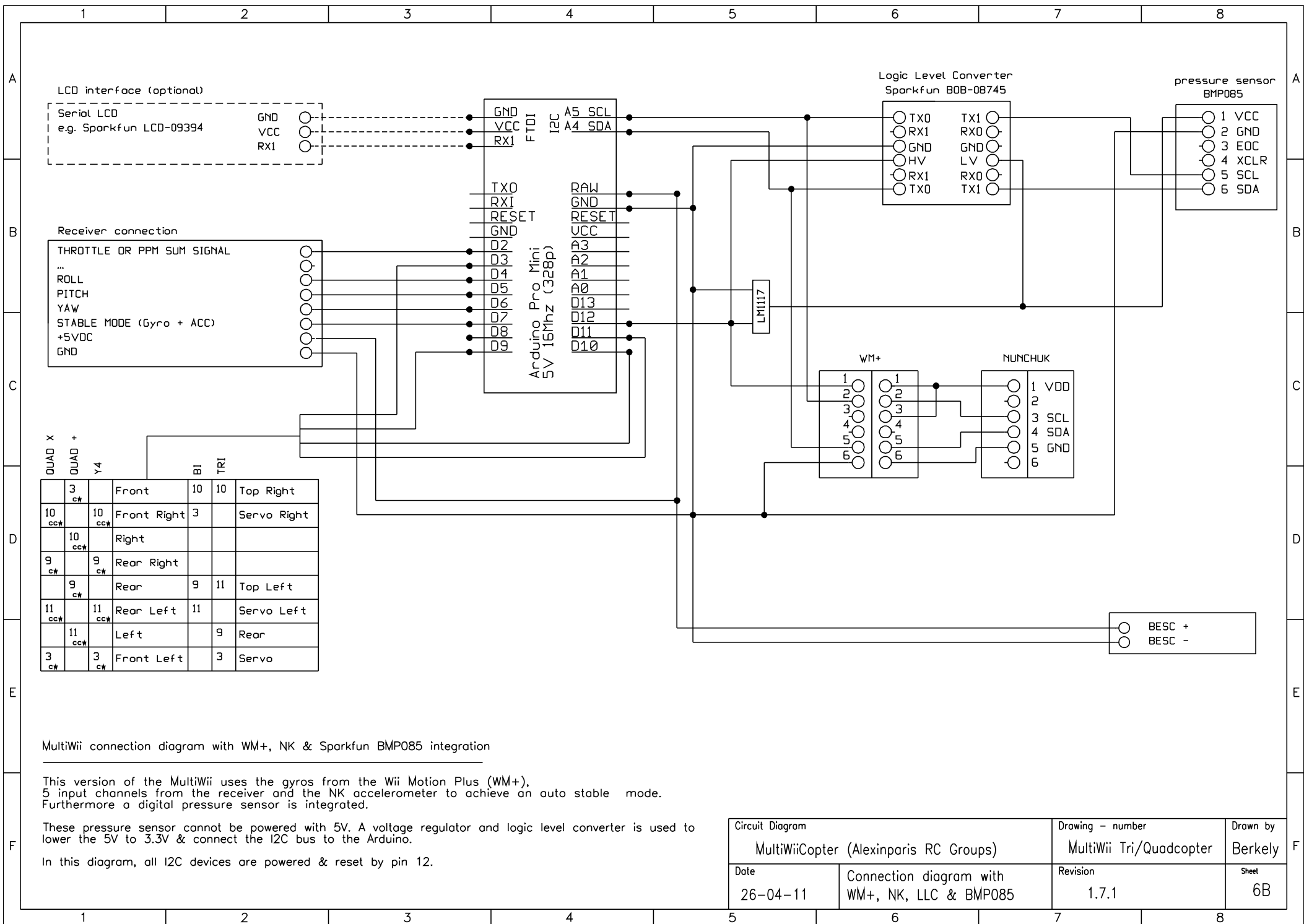
MultiWii connection diagram with Sparkfun ADXL345 & BMP085 integration

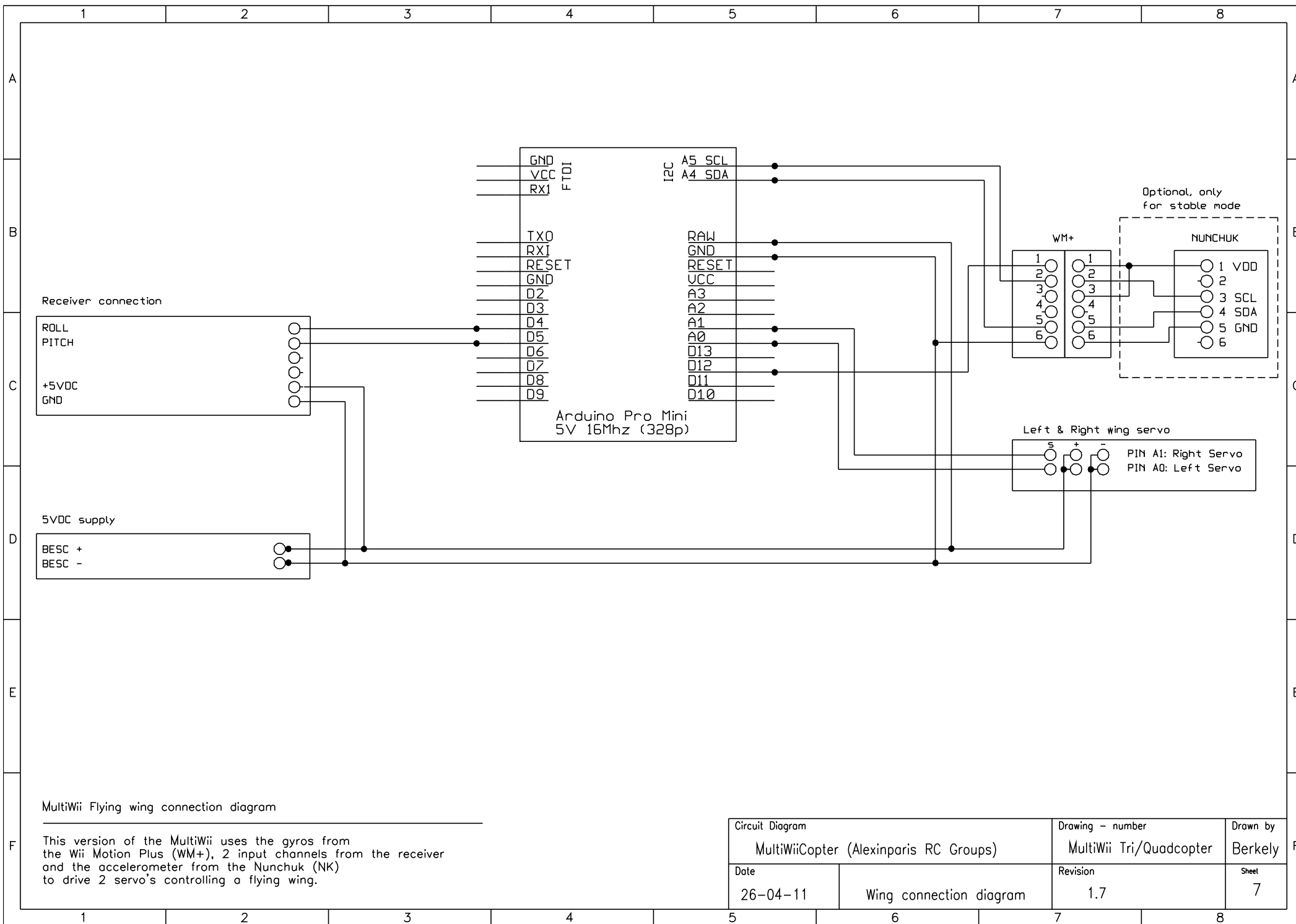
This version of the MultiWii uses the gyros from the Wii Motion Plus (WM+), 5 input channels from the receiver and an ADXL345 accelerometer to achieve an auto stable mode. Furthermore a digital pressure sensor is integrated.

These sensors cannot be powered with 5V. A voltage regulator and logic level converter is used to lower the 5V to 3.3V & connect the I2C bus to the Arduino.

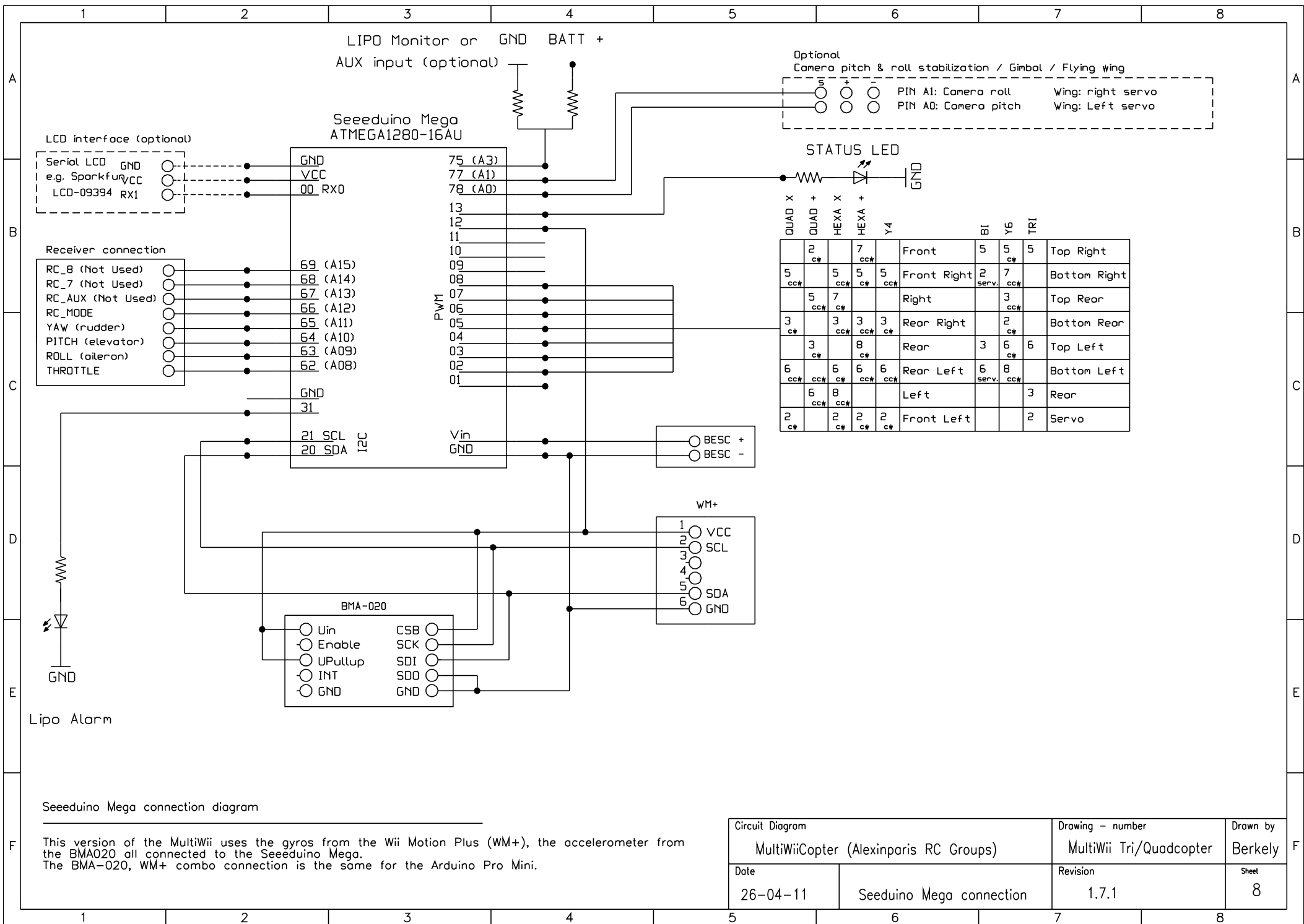
In this diagram, the WM+ is still powered & reset through pin 12 while the other sensors are powered separate by a 3.3V regulator.

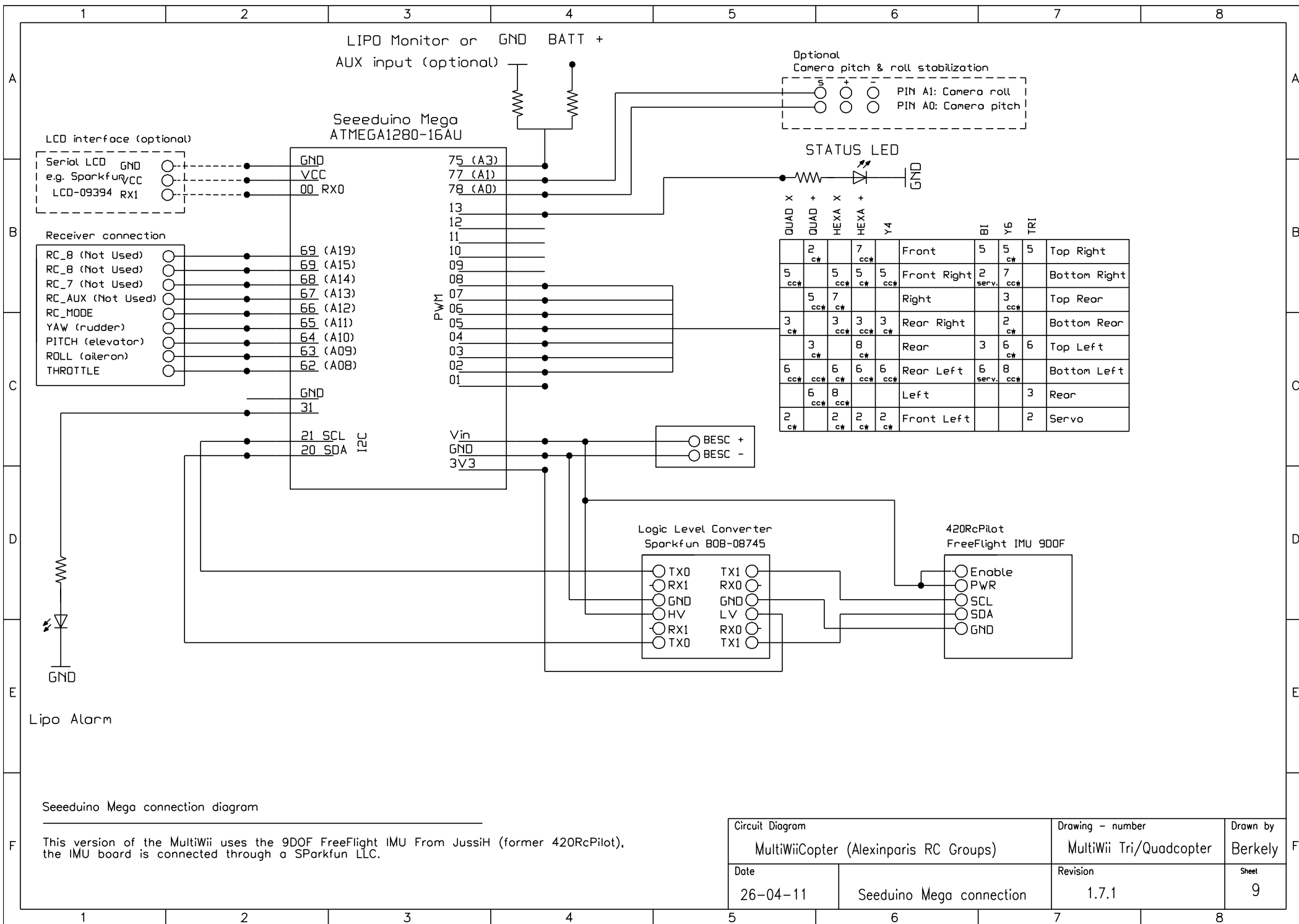
Circuit Diagram		Drawing - number	Drawn by
MultiWiiCopter (Alexinparis RC Groups)		MultiWii Tri/Quadcopter	Berkely
Date	Connection diagram with LLC	Revision	Sheet
26-04-11	ADXL345 & BMP085 (option 2)	1.7.1	6

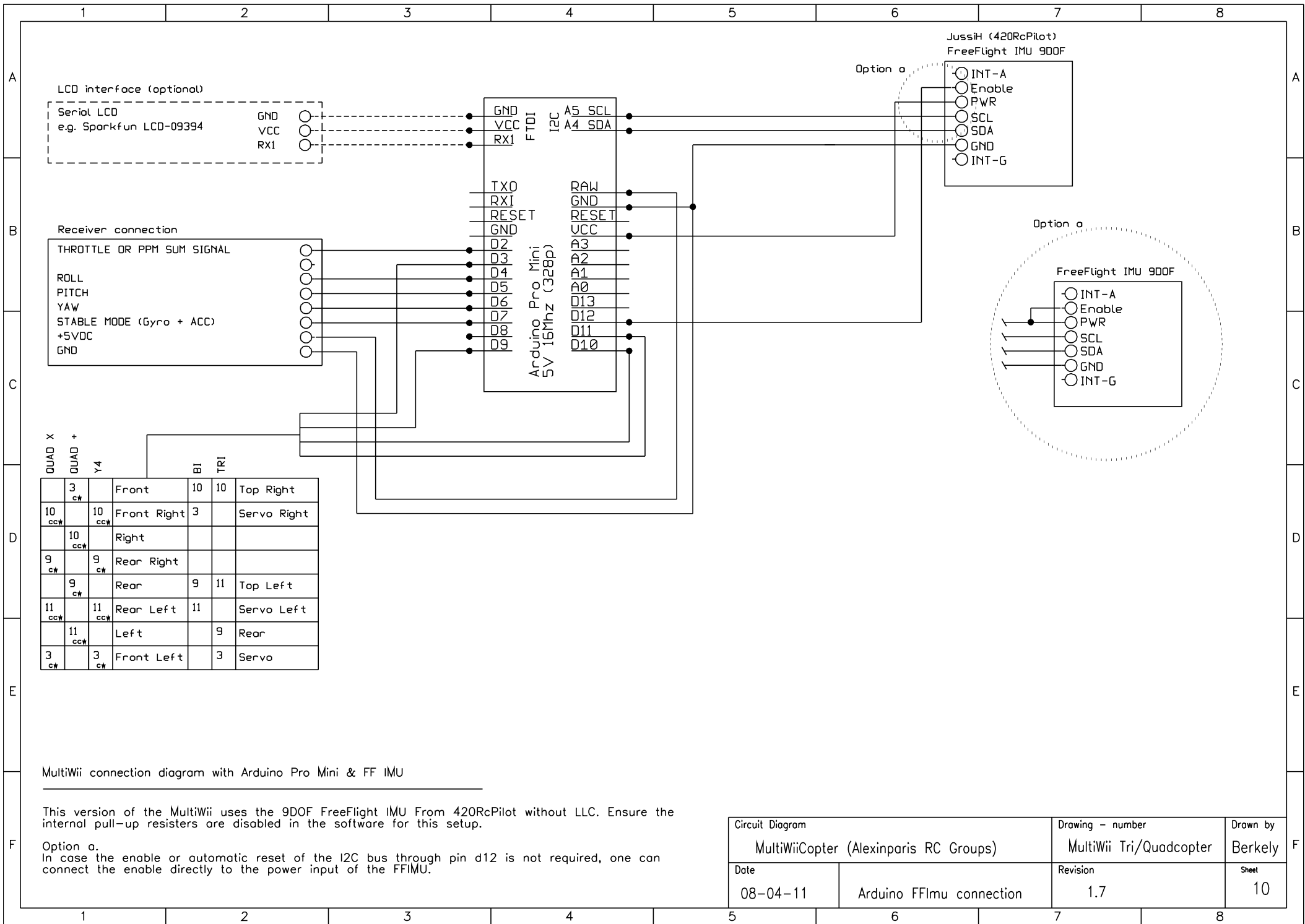


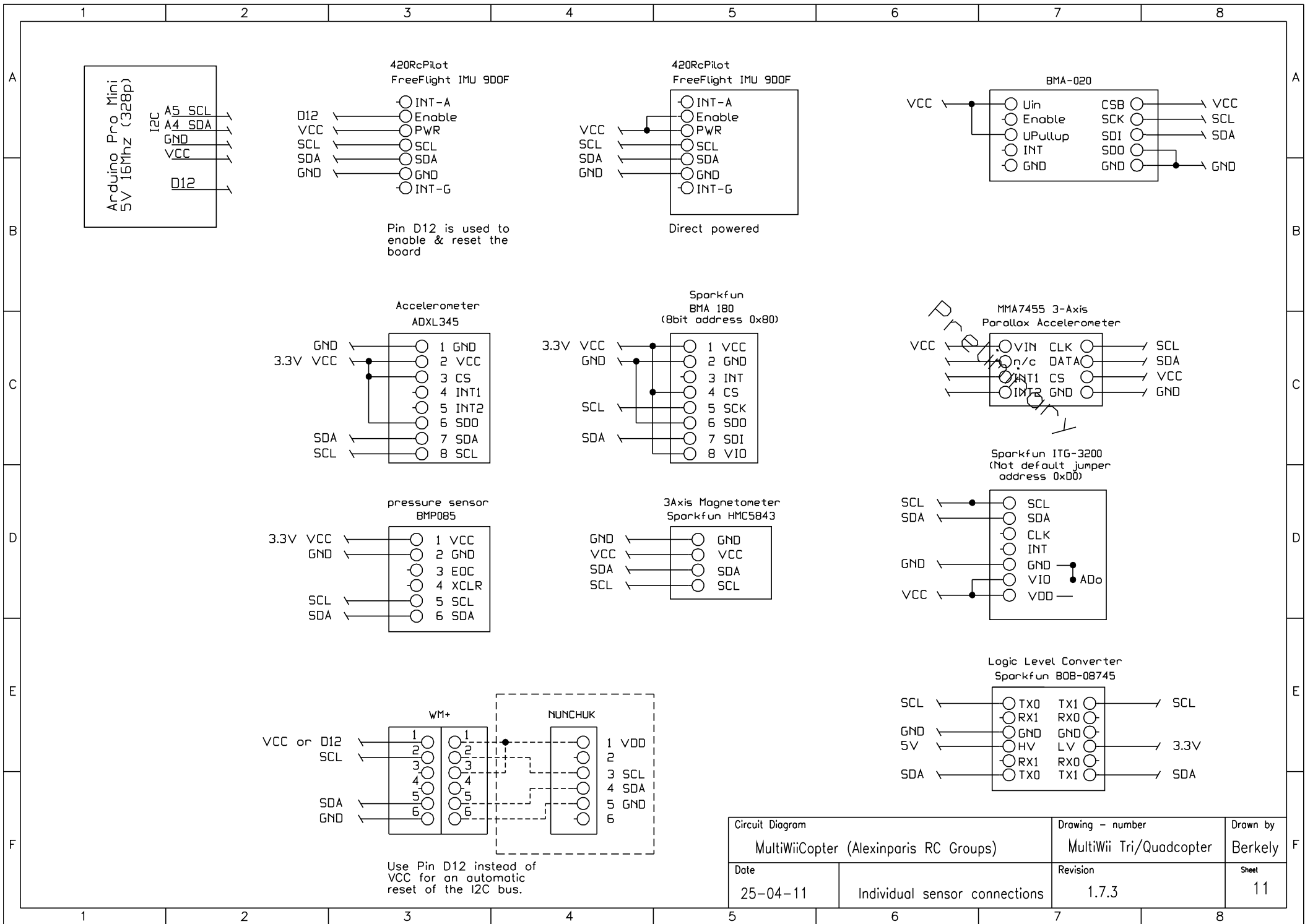


Circuit Diagram		Drawing - number		Drawn by	
MultiWiiCopter (Alexinparis RC Groups)		MultiWii Tri/Quadcopter		Berkely	
Date		Revision		Sheet	
26-04-11	Wing connection diagram	1.7		7	

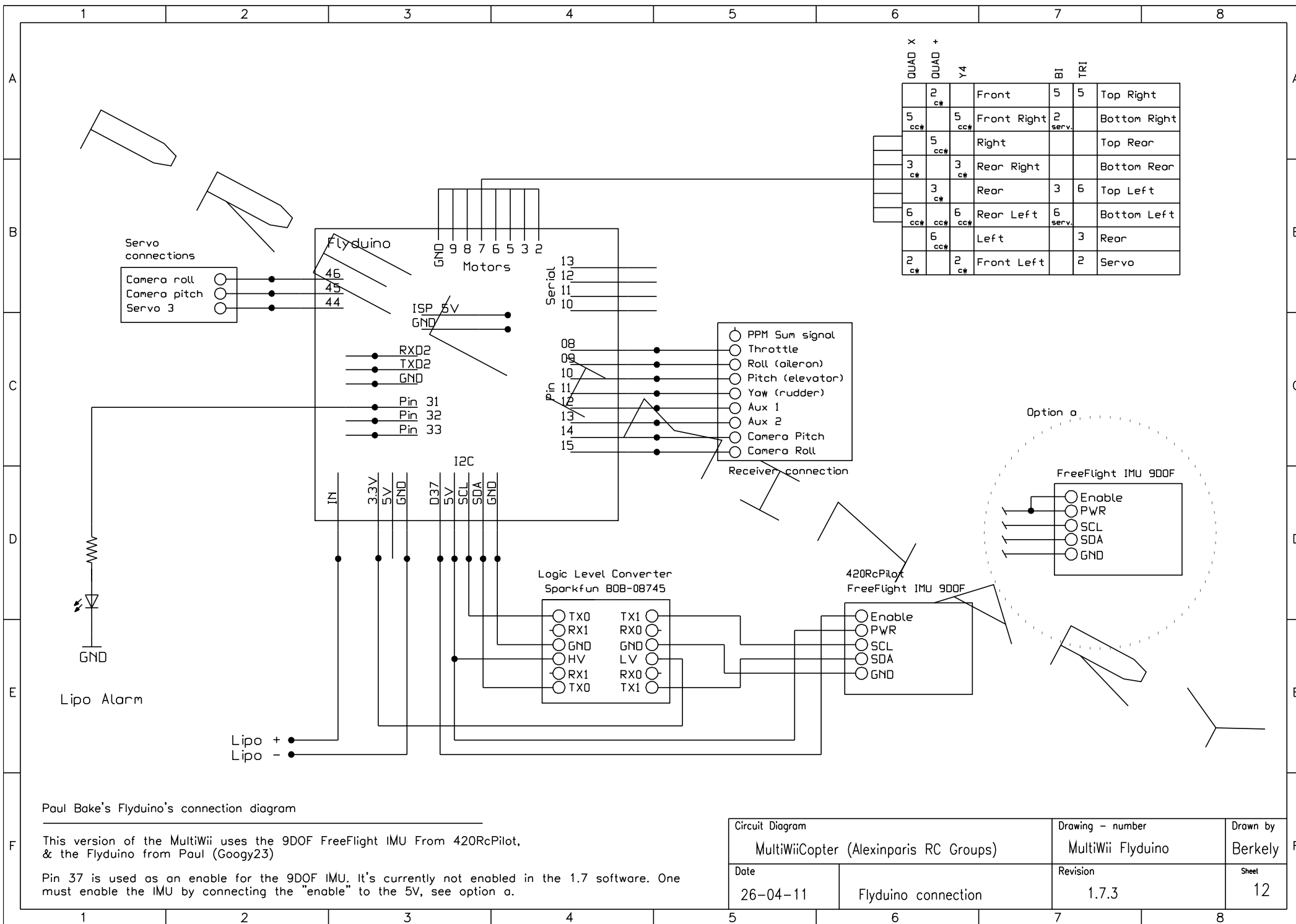








Circuit Diagram		Drawing - number		Drawn by	
MultiWiiCopter (Alexinparis RC Groups)		MultiWii Tri/Quadcopter		Berkely	
Date		Revision		Sheet	
25-04-11		Individual sensor connections		1.7.3	
				11	



Paul Bake's Flyduino's connection diagram

This version of the MultiWii uses the 9DOF FreeFlight IMU From 420RcPilot, & the Flyduino from Paul (Googy23)

Pin 37 is used as an enable for the 9DOF IMU. It's currently not enabled in the 1.7 software. One must enable the IMU by connecting the "enable" to the 5V, see option a.

Circuit Diagram		Drawing - number		Drawn by	
MultiWiiCopter (Alexinparis RC Groups)		MultiWii Flyduino		Berkely	
Date	Revision		Sheet		
26-04-11	Flyduino connection	1.7.3		12	