

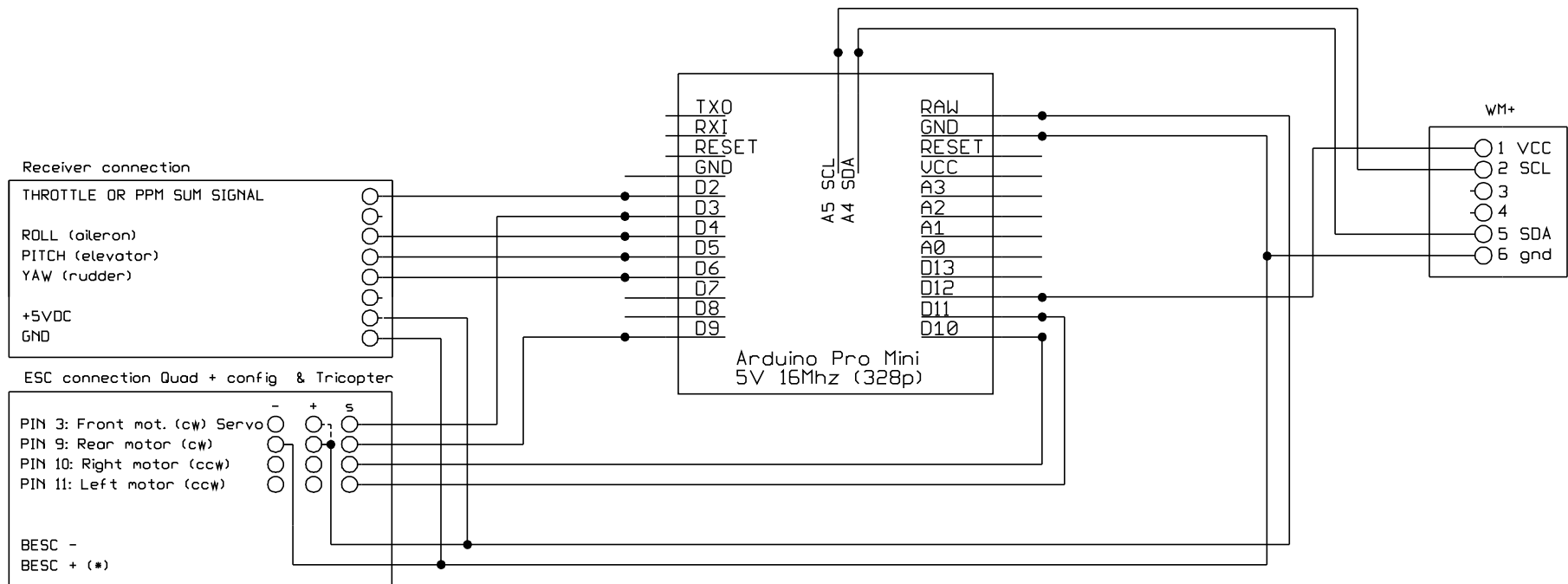
# MultiWii Connection Diagrams

All diagrams are fully compatible with the latest MultiWii firmware version 1.8

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Circuit Diagram		Drawing - number		Drawn by	
MultiWiiCopter <a href="http://www.multiwii.com">www.multiwii.com</a>		MultiWii Tri/Quadcopter		Berkely	
Date		Revision		Sheet	
14-09-11		Introduction		1.8	
				0	



Note: ESC connection for Quad X config is different:

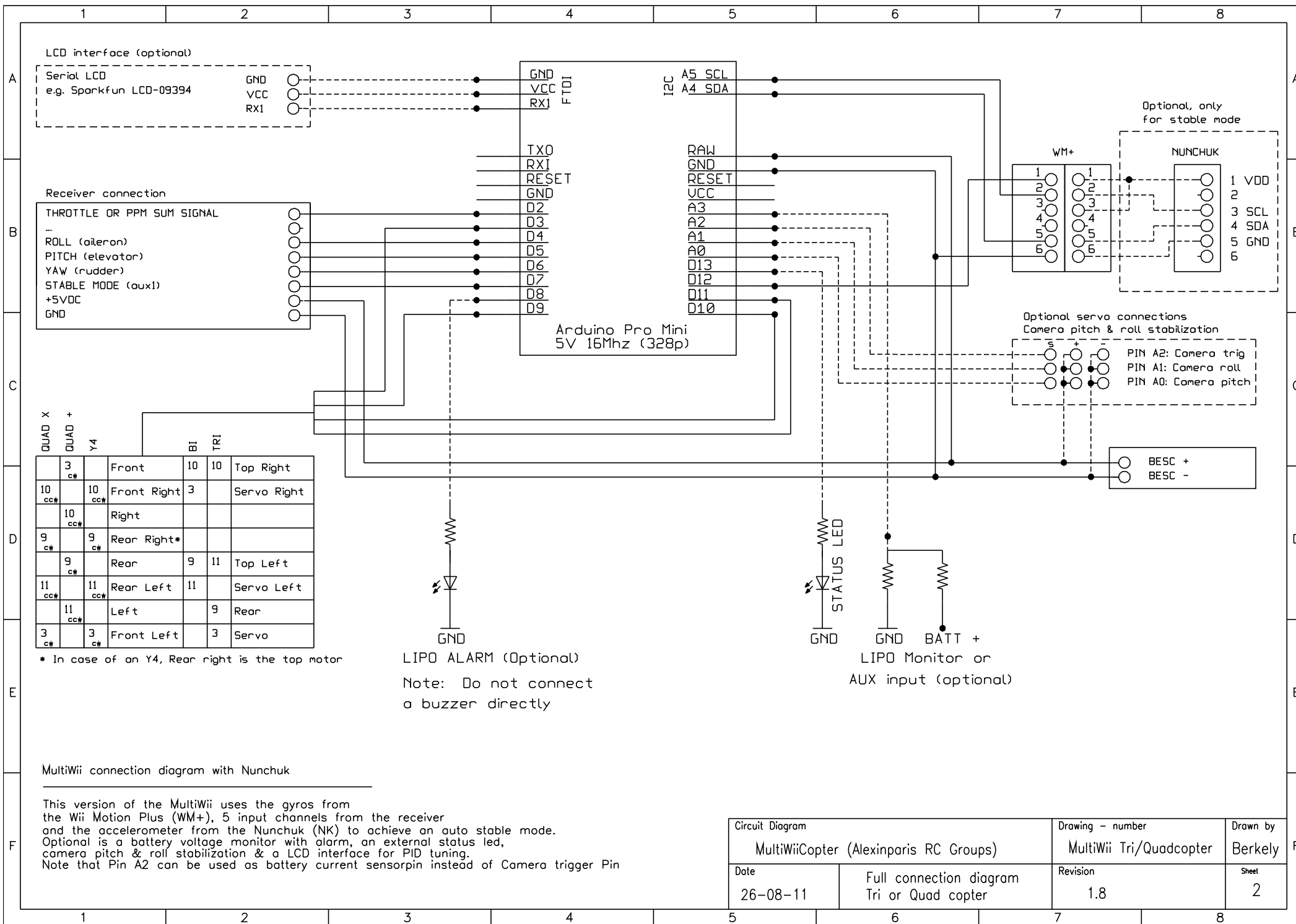
PIN 3: Front left motor (cw)  
 PIN 9: Rear right motor (cw)  
 PIN 10: Front right motor (ccw)  
 PIN 11: Rear left motor (ccw)

(\*) 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.

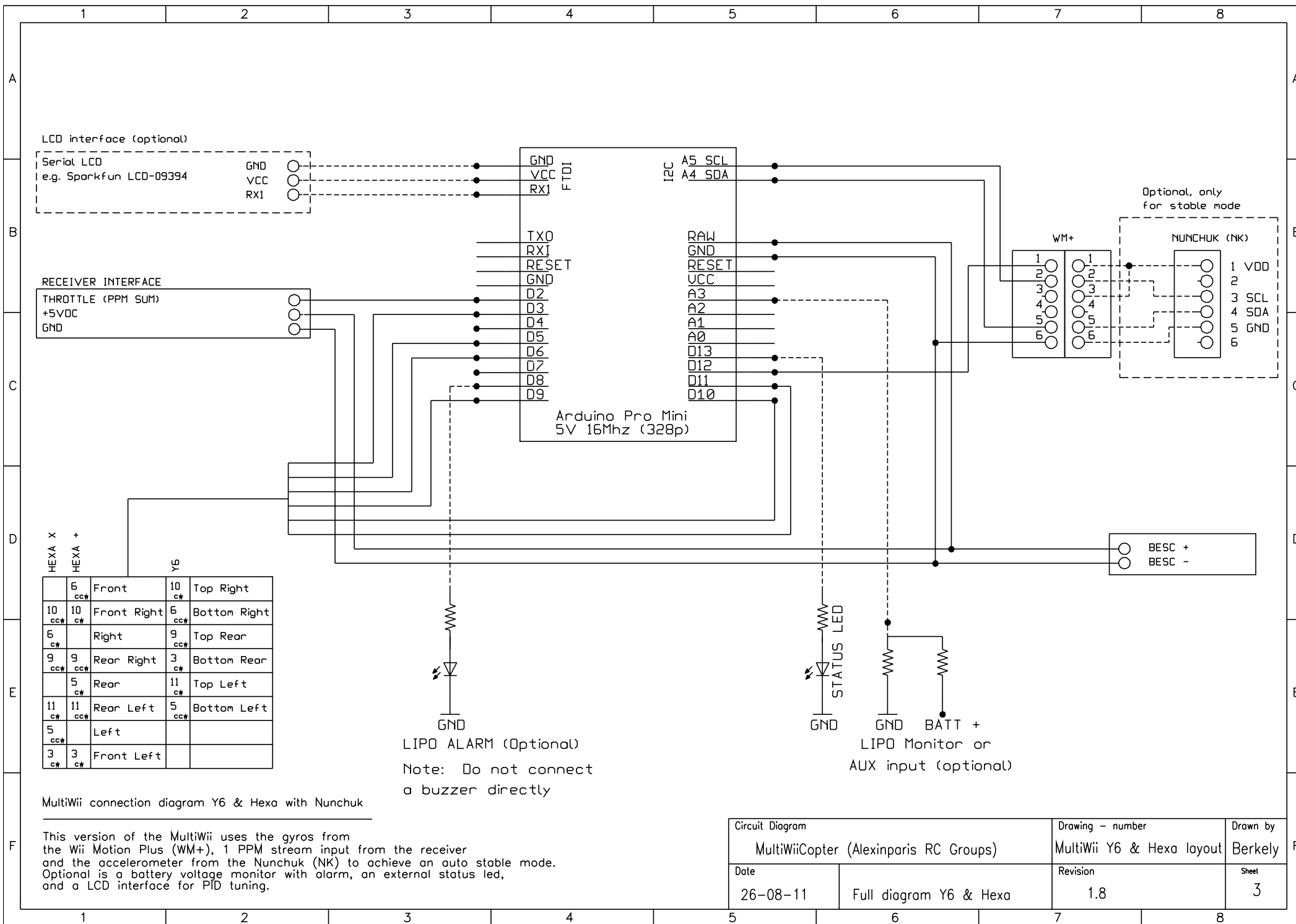
#### Basic MultiWii connection diagram:

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.

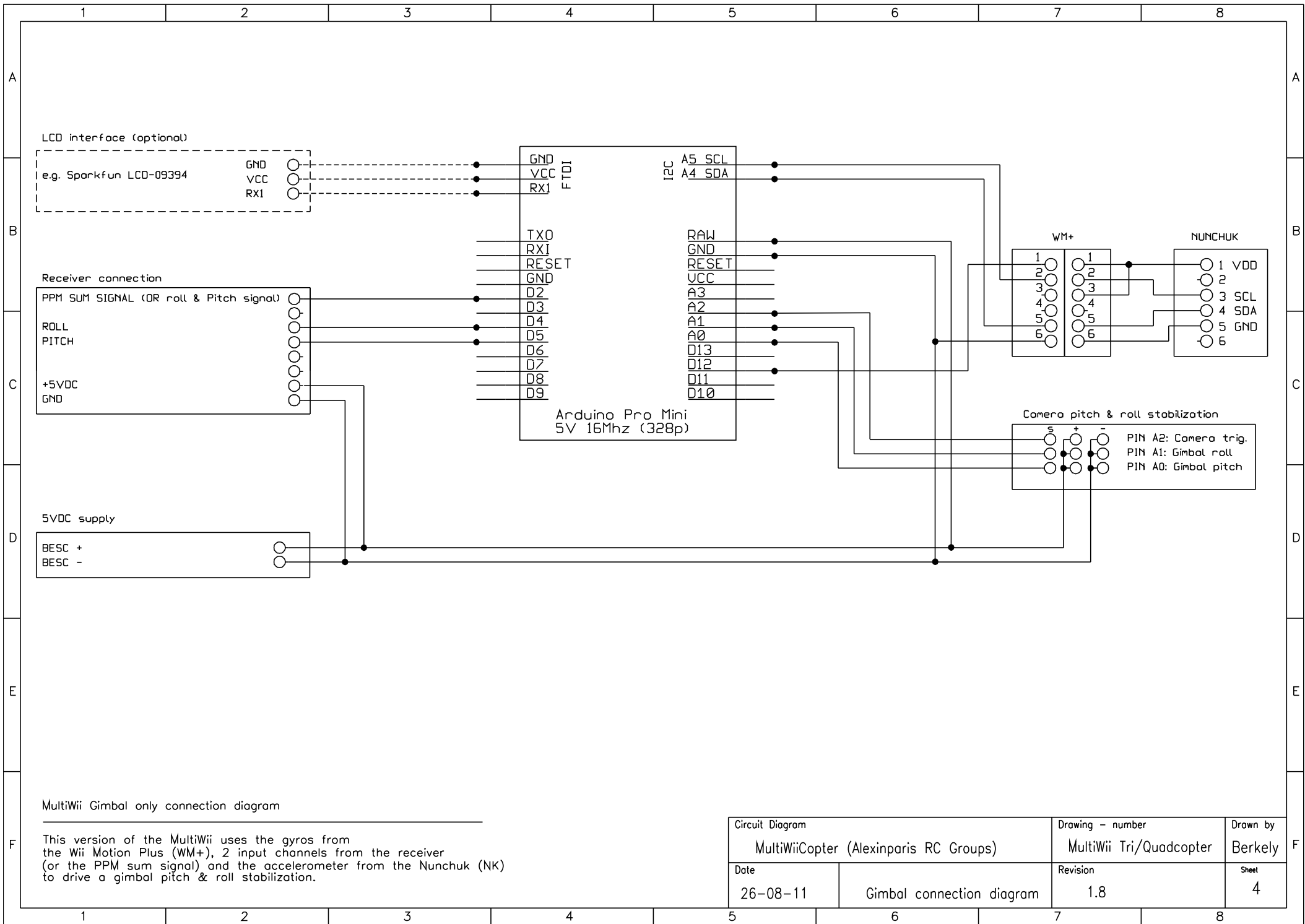
Circuit Diagram		Drawing - number		Drawn by	
MultiWiiCopter (Alexinparis RC Groups)		MultiWii Tri/Quadcopter		Berkely	
Date	BASIC connection diagram	Revision	Sheet		
26-08-11	Tri or Quad copter	1.8	1		

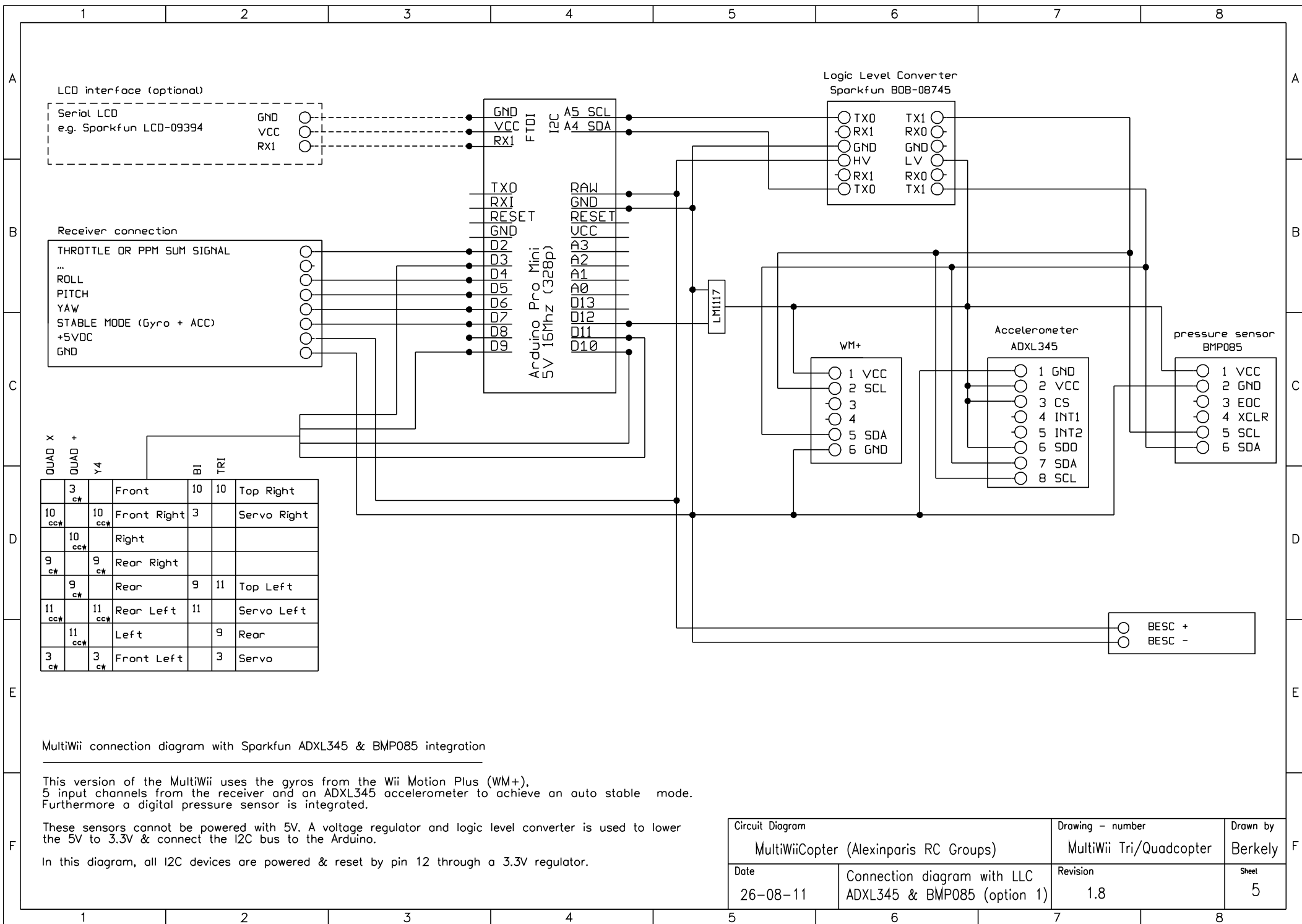


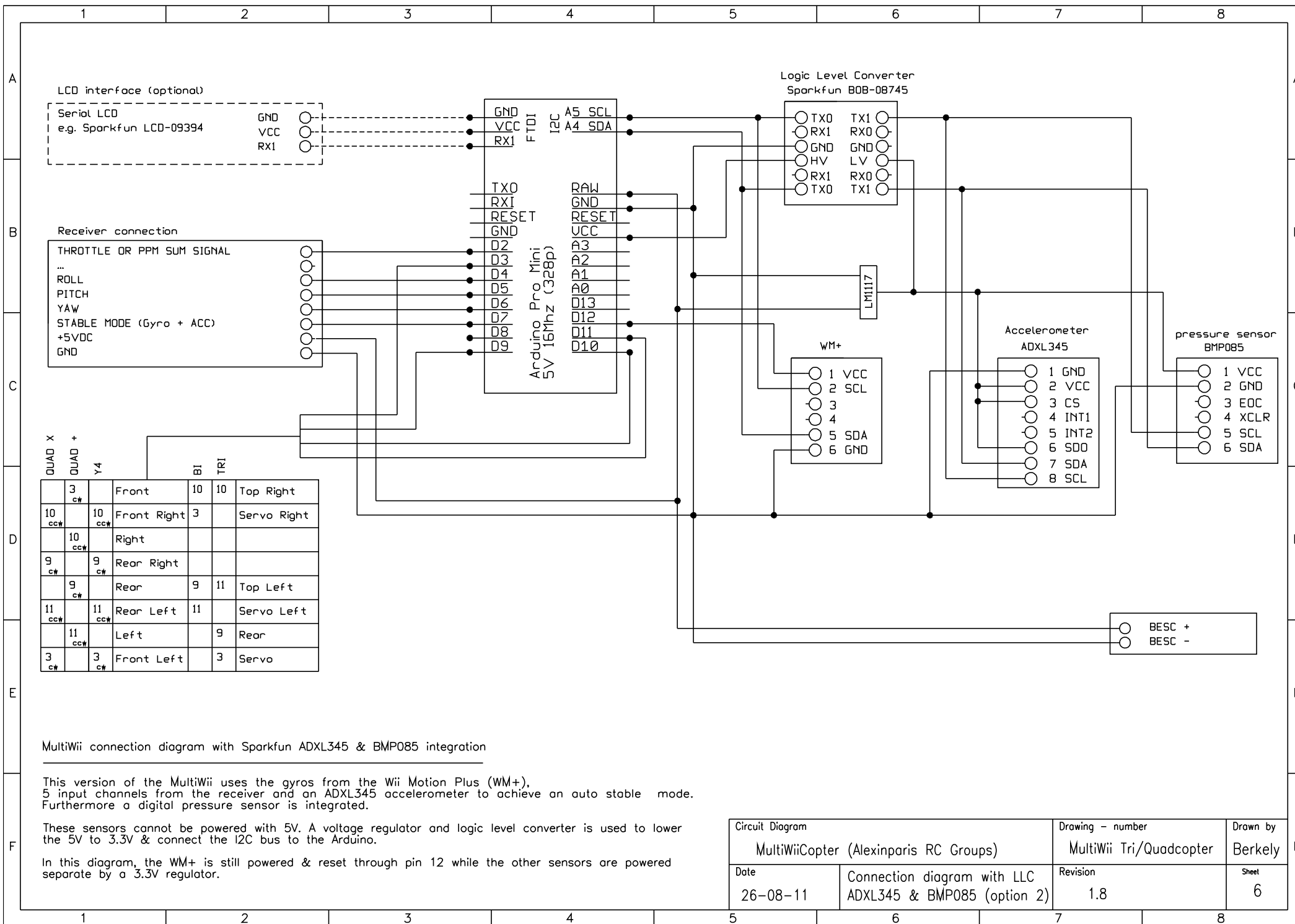
Circuit Diagram		Drawing - number	Drawn by
MultiWiiCopter (Alexinparis RC Groups)		MultiWii Tri/Quadcopter	Berkely
Date	Full connection diagram Tri or Quad copter	Revision	Sheet
26-08-11		1.8	2



Circuit Diagram		Drawing - number		Drawn by	
MultiWiiCopter (Alexinparis RC Groups)		MultiWii Y6 & Hexa layout		Berkely	
Date		Revision		Sheet	
26-08-11		Full diagram Y6 & Hexa		1.8	
				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
26-08-11	ADXL345 & BMP085 (option 2)	1.8	6

