

UMX Conv Module User Instructions **(Brushed to Brushless Signal Converter)**

The UMX Conv Module will modify the PWM signal going to a Brushed Motor and change it to a PPM signal for a Brushless Motor ESC.

It takes the PWM signal and translates it to 1000 to 2000uS PPM signal.

This was designed for the Spektrum AS6410L AS3X style Receivers used in the small UMX Gyro Airplanes.

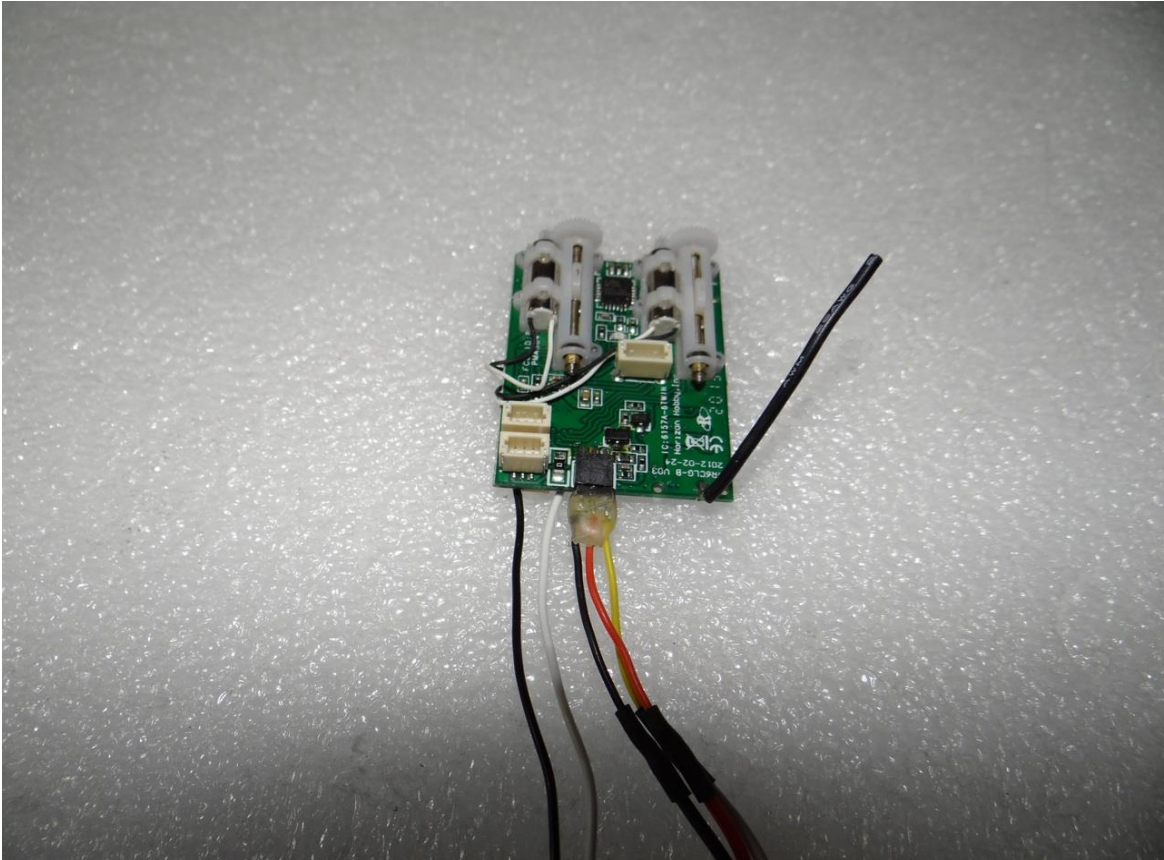
When using a 1S battery the Battery connector on the Spektrum SAFE PCB is used.

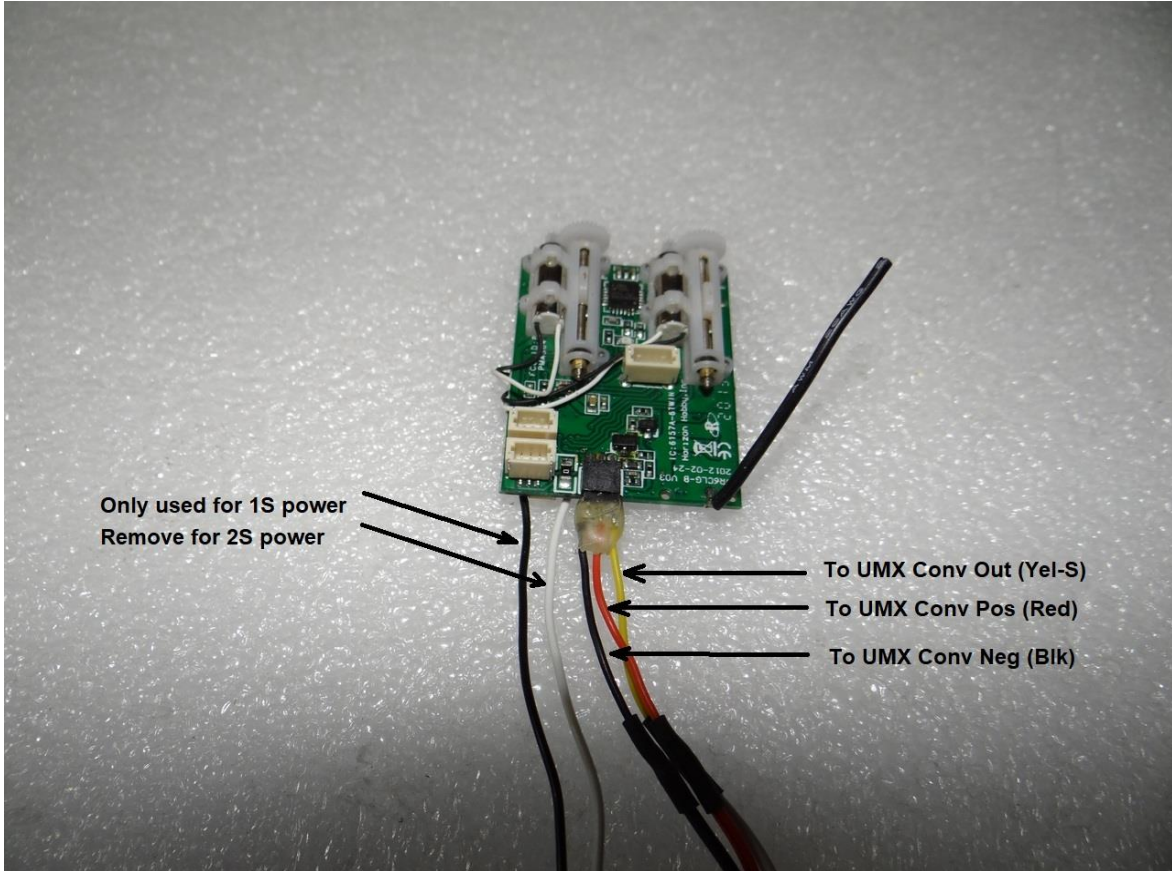
When using a 2S battery the ESC is supplied by the 2S battery and the ESC BEC supplies 5V through a rectifier Diode to drop the voltage to the Spektrum PCB to 4.4 Volts. Supplying 5Volts to the Spektrum PCB will damage it. A Voltage Dropping Diode is already on the UMX Conv PCB and the ESC BEC connects to it by the Large Yellow wire of the UMX Conv Module PCB.

NOTE: The Spektrum PCB's 1S battery connector is NOT used in 2S Battery Mode.

UMX Conv Module PCB wire Color Identification: (See Drawings)

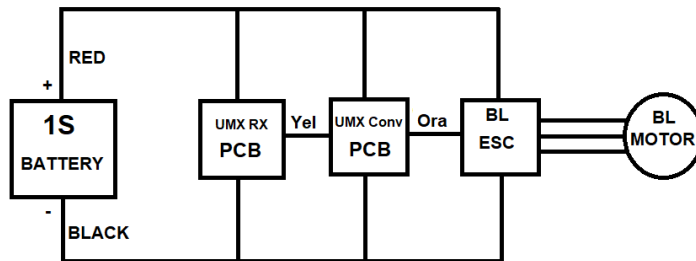
Red	- goes to the Spektrum PCB Motor Conn + Battery pin
Blk	- goes to the Spektrum PCB Motor Conn – Battery pin
Yel Small	- goes to the Spektrum PCB Motor Conn Signal pin
Yel Large	- goes to the ESC BEC +5V Output wire
Ora	- goes to the ESC PPM Input signal wire





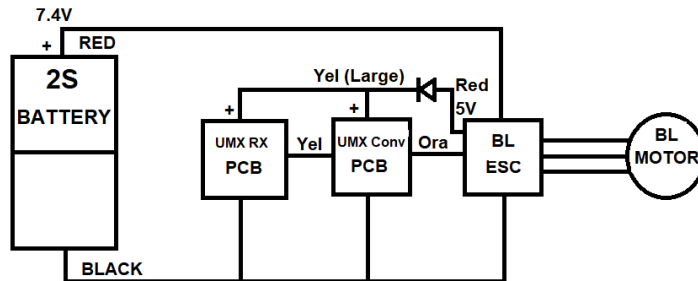
UMx Conv Module Hookup

By J.BAUER Electronics



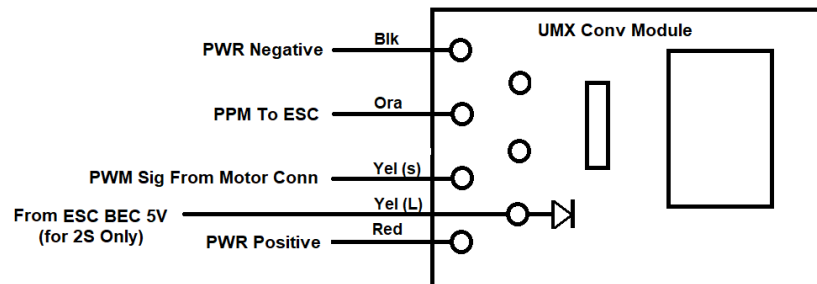
UMX Conv Module Hookup

By J.BAUER Electronics



UMX Conv Hookup

By J.BAUER Electronics



J.Bauer Electronics
1805 Route 340
St. Telesphore, Quebec
J0P 1Y0
Canada