

PPM ENCODER



PPM encoder module

Three-wire cable (12 cm)

Translates up to eight PWM (pulse width modulation) signals into one PPM (pulse position modulation) signal, allowing you to connect a PWM receiver to a PPMcompatible autopilot over one wire



DF13 three-position to servo cable connects the encoder to the autopilot

Ten-wire cable (7 cm) DF13 ten-position to servo cable connects the PWM receiver to the encoder

Connect a PPM receiver

Connect the ten-wire cable to the encoder's ten-position port.



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Connect each wire to your RC receiver. Connect the red wire to power, the black wire to ground, and the white wires to channels one through eight as shown below.







Connect the three-wire cable to your autopilot's input pins.

Pixhawk

Connect to RC pins.

ground (-) black wire power (+) red wire signal (s) white wire



PX4

Connect to signal, power, and ground input pins 1.

signal (s) white wire power (+) red wire ground (-) black wire



APM 2.6

Connect a PPM jumper (included with APM) to signal pins 2 and 3. Connect three-wire cable to ground, power, and signal pins 1.



signal (s) white wire power (+) red wire ground (-) black wire When powered, the LED indicates the status of the radio signal.



Configuration

No configuration is necessary to use the PPM encoder out of the box, just connect and power to translate PWM into PPM over one wire. For information on reloading firmware onto the encoder, visit the <u>APM Wiki page here</u>.

The ATmega328p firmware can be downloaded <u>here for</u> planes and rovers and <u>here for copters</u>.

Failsafe configuration

Failsafes can protect your vehicle from loss of radio signal. To learn more about configuring failsafes with your PPM encoder, visit the <u>APM Wiki page here</u>.

Specifications

- ATmega328p microcontroller, firmware upgrade enabled through AVRISP programmer
- 22 x 19 x 5.5 mm (without cables)
- 1.45 g

Support

For customer support, contact us at **help@3dr.com** or call our support line at **+1 (858) 225-1414** Monday through Friday, from 8 am to 5 pm, PST.



