

Micron MT01b Transmit Module (from v1.3)

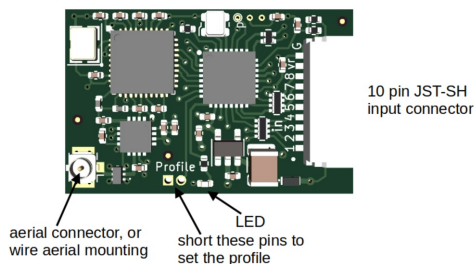
PLACEHOLDER FOR V1.3

MT01b is a radio module which can be used to make a 7 channel DSM2 2.4GHz transmitter. It is compatible with all Micron and Deltang receivers and the range is suitable for indoor and small outdoor sites.

THIS DOCUMENT IS INCOMPLETE. The current firmware functionality mirrors the [Deltang Tx2](#) for profiles 1, 5, 6 and 7. Please [contact](#) Micron if you have any questions about usage.

Connections

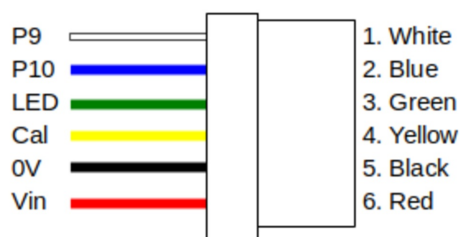
The module has 3 JST-SH connectors: a 10 pin for inputs, GND/0V and 3.3V regulated supply for analogue controls; a 6 pin for battery input and indicator LED; and a 3 pin for future serial input. All connectors have unused pins which are for future enhancements.



MT01b does not have an on-board LED. You will need to connect JST-SH 6p, pin 3 to an external LED - see one of the wiring diagrams below for an example LED connection.

6 pin power connector

The only usable pins with the current firmware release are 3, 5 & 6 (LED, 0V, Vin). Pin 6 should be connected to the battery via an on/off switch; there is a diode on the MT01b board to protect against reverse polarity. P9, P10 and Cal will be supported in a future firmware release.



10 pin signal connector

Pins 1 to 7 are the control inputs, either analogue or digital depending on the selected profile. The max analogue input voltage for full control range is 1.65V. Any unused analogue inputs should be connected to negative to avoid input noise affecting adjacent analogue channels.

Pin 8 is not used by the current firmware release. Pin 9 provides a regulated 3.3V output for use with analogue controls; a voltage divider should be used so that the analogue input voltage varies between 0V and 1.65V - i.e. a 10k ohm potentiometer should have a 10k ohm resistor in series.

