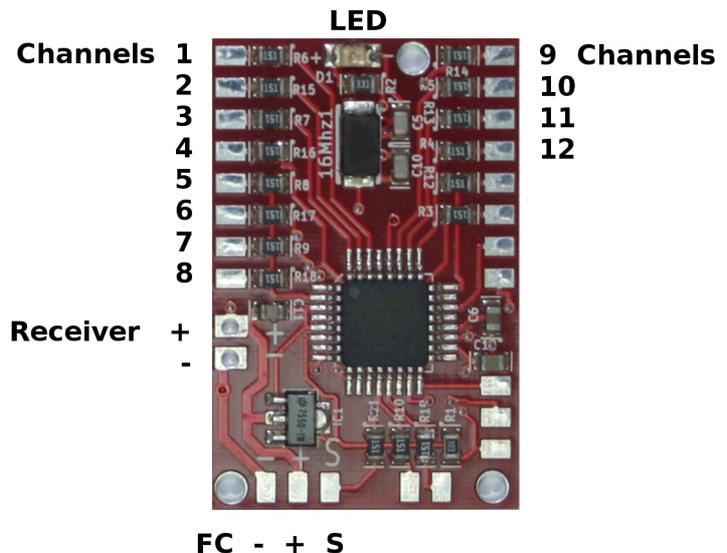Instructions manual
Serializer PPM v3
8/12 channels

Description :

- Serialize receiver channels signals on a single wire,
- Compatible with Mikrokopter electronic (FC) and most RC equipments
- Stabilized neutral on all channels,
- Available in 8 or 12 channels version (PPM8 or PPM12)
- External crystal for good temperature stability,
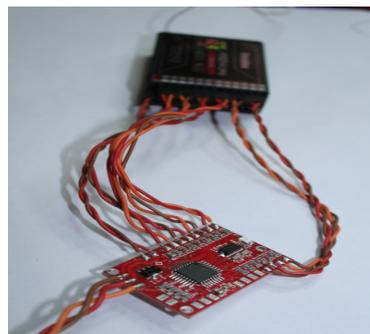- Channel entry protection resistor,

Use:

- Connect RC Receiver channels to Serializer channels 1 to 8 and 9 to 12 (if 12 channels version). It is not required to connect all channels to the serializer,
- connect + and – to the receiver,
- connect +, – from the Flight Control Board (FC),
- connect S (Signal) to the Flight Control board.

The PPM serializer can be powered only by one single source (either FC or receiver).

Unused channels are set to neutral (1500usec) within the PPM signal.

LED:

- at power up, the LED lights once and switch OFF,
- it blinks continuously as soon as the serializer receives at least one signal from one of the receiver channel. The more channels are connected, the more the LED blinks quickly.

Failsafe:

In case of failure or power loss of the receiver, the serializer behaves in the following way:
- if the receiver sends at least one valid frame on any of the channels connected, then the serializer generates one valid PPM frame to the FC,
- if the receiver do not send any valid signal, then no PPM frame is generated towards the FC.

Example:

- a 2.4Ghz or FM-PCM receiver having a powerloss or being totally disconnected from the serializer on all channels → the serializer will not send any PPM frame to the FC
- a 2.4Ghz Assan receiver (or similar) at powerup, while his transmitter is switched off → no PPM frame is sent to the FC
- a 2.4Ghz or FM-PCM having lost the RC signal from his transmitter → the serializer send a valid frame. If the receiver failsafe has been previously configured, then the serializer will transmit unchanged to FC.

Warranty:

This product is warrantied against any manufacturing default during 6 month after purchasing date. The warantee is limited to the replacement of the failed part. To the exception of this warranty, the selling or handling of this product is made without any warranty, condition or any other obligation, even if the default or loss is due to a bad or neglecting use or any other fault. Any damage resulting from the use, accident, or normal usure, or bad connection or wire, is not covered by this warranty or any other warranty. Flyboard does not assume any responsibility in case of accident, body damage, death, or loss, or any other request in relation with or being the result of the use of this product.. Flyboard would not in any circumstance assume reponsability of collateral damages or indirect in relation with the use of this product, or any part of it.

This Product is **not** for children below 14 years old, and require sufficient electronic skills to operate.

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