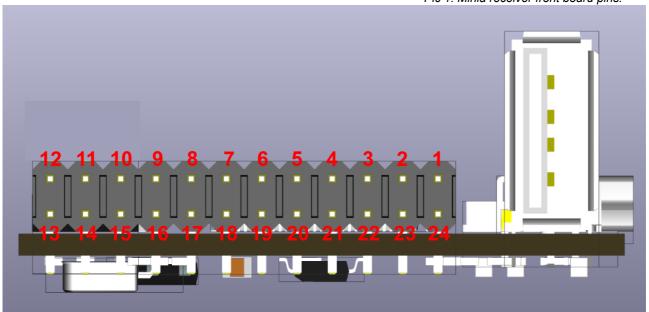
## 1. MINLA receiver board pinout functional description.

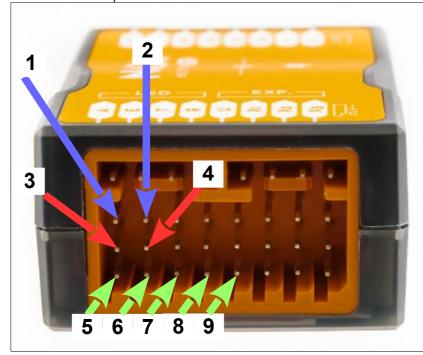
Pic 1. Minla receiver front board pins.



Pin number	Function
1	+5V (Power input). Recommended supply current ~ 850 mA.
2	GND
3	+5V (Power input/output). May be used to power other devices.
4	GPS RX – data input from NAZA GPS / U-BLOX GPS
5	GPS TX – data output to U-BLOX GPS
6	GND
7*	I2C SDA
8*	I2C SCL
9	FIRMWARE UPGRADE JMP
10	FIRMWARE UPGRADE JMP
11	LiPo 4S (voltage level measurement for LiPo 4S battery)
12	LiPo 3S (voltage level measurement for LiPo 3S battery)
13	PWM CH1 (connect to Naza channel "A")
14	PWM CH2 (connect to Naza channel "E")
15	PWM CH3 (connect to Naza channel "T")
16	PWM CH4 (connect to Naza channel "R")
17	PWM CH5 (connect to Naza channel "U")
18	PWM CH6. General purpose PWM output.
19	PWM CH7. General purpose PWM output.
20	PWM CH8. General purpose PWM output.
21	PWM CH9. General purpose PWM output.
22	PPM IN (backup PPM receiver input)
23	GND (backup, optional)
24	+5V (Power input backup, optional). Recommended current 0.85 mA.
* Reserved for future use. Not implemented in current firmware.	

## 2. Naza M V2 to Minla receiver connection scheme.

Pic. 2. NAZA M V2 pins.



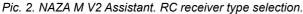
Please note that all pins on the 3<sup>rd</sup> row from the bottom of NAZA flight controller are all **GND**.

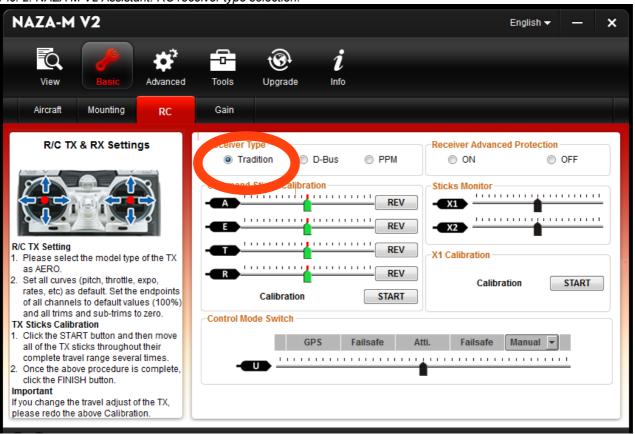
Pins on 2<sup>nd</sup> row from the bottom of NAZA flight controller are all **+5V power output**.

Connect NAZA flight controller to MINLA receiver board as follows:

MINLA pin number		
2		
23		
1		
24		
13		
14		
15		
16		
17		

In this setup NAZA works as a power source to MINLA receiver. MINLA receiver works as a **Tradition** receiver (see pic 3.), so keep this in mind when you will select receiver type in NAZA configuration software.

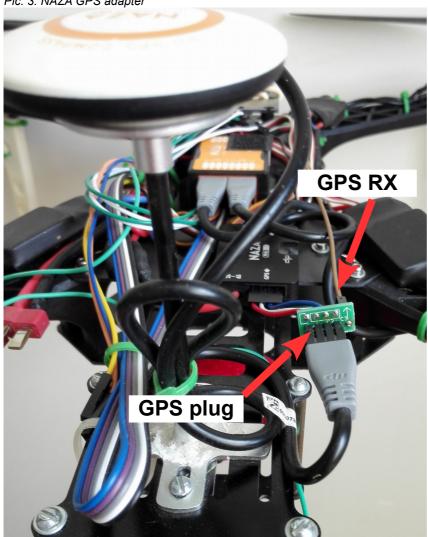




## 3. GPS connection.

In minimal setup Minla reciever can work without any GPS data. But if you want to see drone position on the map in control panel (recommended), you will need to connect NAZA GPS module to NAZA flight controller via plug adapter, see pic. 3.





Connection is straightforward. Orient NAZA GPS cable connector as if you would connect it to NAZA itself, and connect it via special plug adapter to NAZA module. Make sure that wire that comes out of plug adapter is on the right side relative to NAZA GPS connector (as shown on pic.3). Connect GPS RX wire (see pic.3) to MINLA receiver pin number 4.