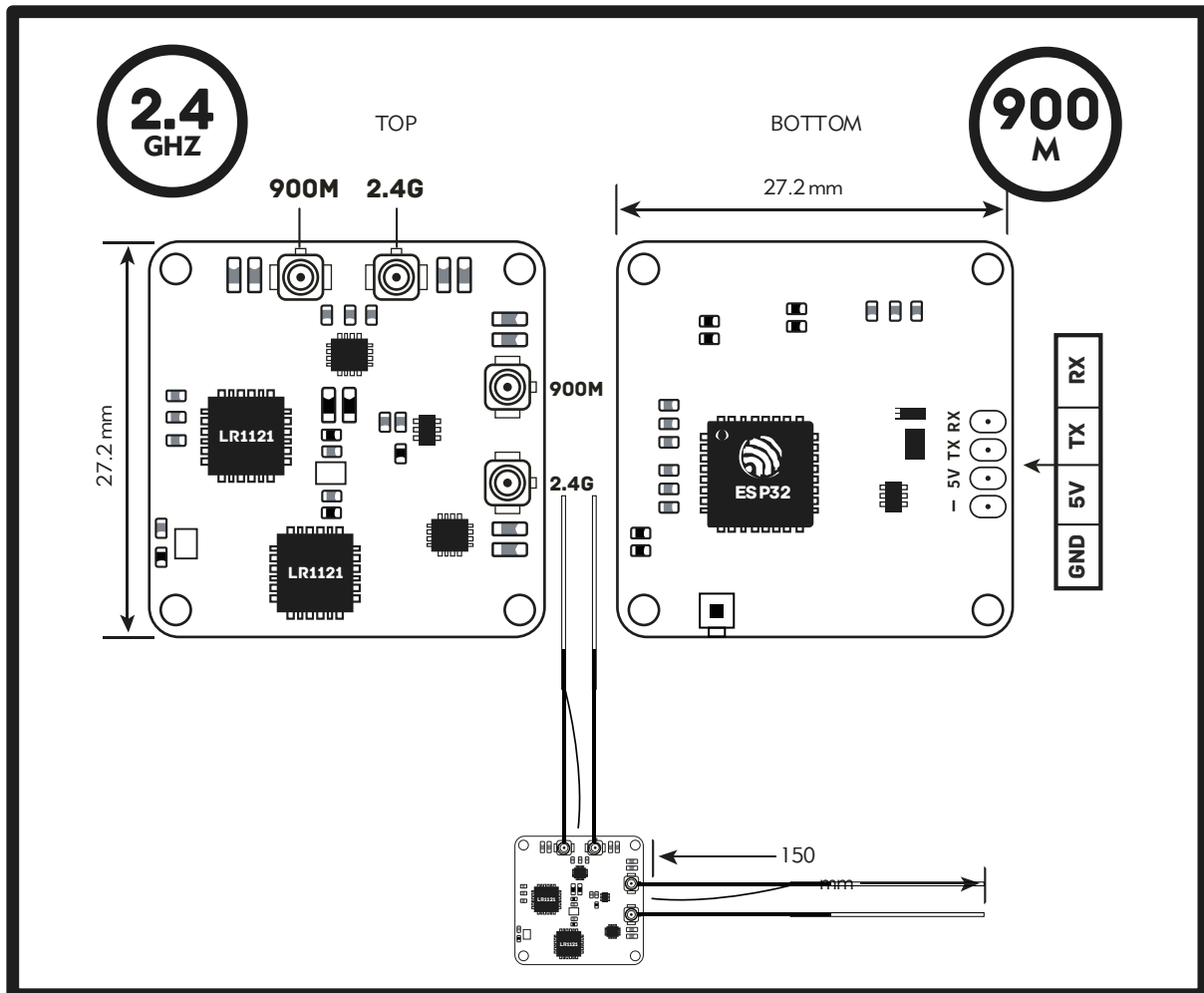




SPECIFICATIONS

- Item: DBR4
- Type: ISM 2.4G/ FCC 900M
- MCU: ESP32
- RF chip: Semtech LR1121 x 2
- Telemetry RF power: Max 100mw
- Antenna: 2x 2.4GHz wire & 2x 915MHz wire
- Frequency Range: 2.402.4 - 2.479.4 GHz / 903.5 - 926.9 MHz
- Maximum receive refresh rate: 500Hz (1000Hz coming soon in ExpressLRS V3.4)
- Minimum receiver refresh rate: 50Hz
- Working voltage: DC 4.5 - 8.4V
- Weight: Without antennas 2.70g / With antennas 5.30g
- Dimension: 27. 20*27. 20mm
- Firmware Version: ExpressLRS v3.3.2 pre-installed
- Bus interface: CRSF

INCLUDES

- 1 * DBR4 Dual band Xross Gemini ExpressLRS Receiver
- 2 * 2.4 GHz wire antenna
- 2 * 900 MHz wire antenna
- 1 * CRSF wire
- 4 * 4mm Red vibration dampeners
- 4 * 3mm Black vibration dampeners
- 1 * Manual card

DEFAULT FIRMWARE

RadioMaster DBR4 Dual band Xross Gemini Receiver

For more information, please visit the ELRS website:

<https://www.expresslrs.org/2.0/>

CONFIGURATION

Identifier	Configuration/MSP	Serial RX
USB VCP	☒ 115200	☐
UART1	☐ 115200	☐
UART2	☐ 115200	☒

Open **Betaflight** Configurator, go to **Ports** tab and enable the corresponding UART as a Serial RX (e.g. UART2 as shown above). **Save** and **Restart**

Receiver

Serial (via UART)

Receiver Mode

• The UART for the receiver must be set to 'Serial Rx' (in the Ports tab)

• Select the correct data format from the drop-down, below:

CRSF

Serial Receiver Provider

On the **Configuration** tab, click on **Serial-based receiver** on the **Receiver** panel, and select **CRSF**.

TRADITIONAL BINDING

Binding Phrase field must be uncommented in **Device options** on the RX.

1. Power **OFF** your transmitter/radio.
2. Plug in and unplug your receiver **3 times**.
3. Make sure the LED is doing a quick **double blink**, which indicates the receiver is in bind mode.
4. Power **ON** your transmitter/radio and use the **[BIND]** button on the ExpressLRS Lua script, which sends out a binding pulse.
5. If the receiver has a **solid light**, it's bound!

FCC Warning

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.