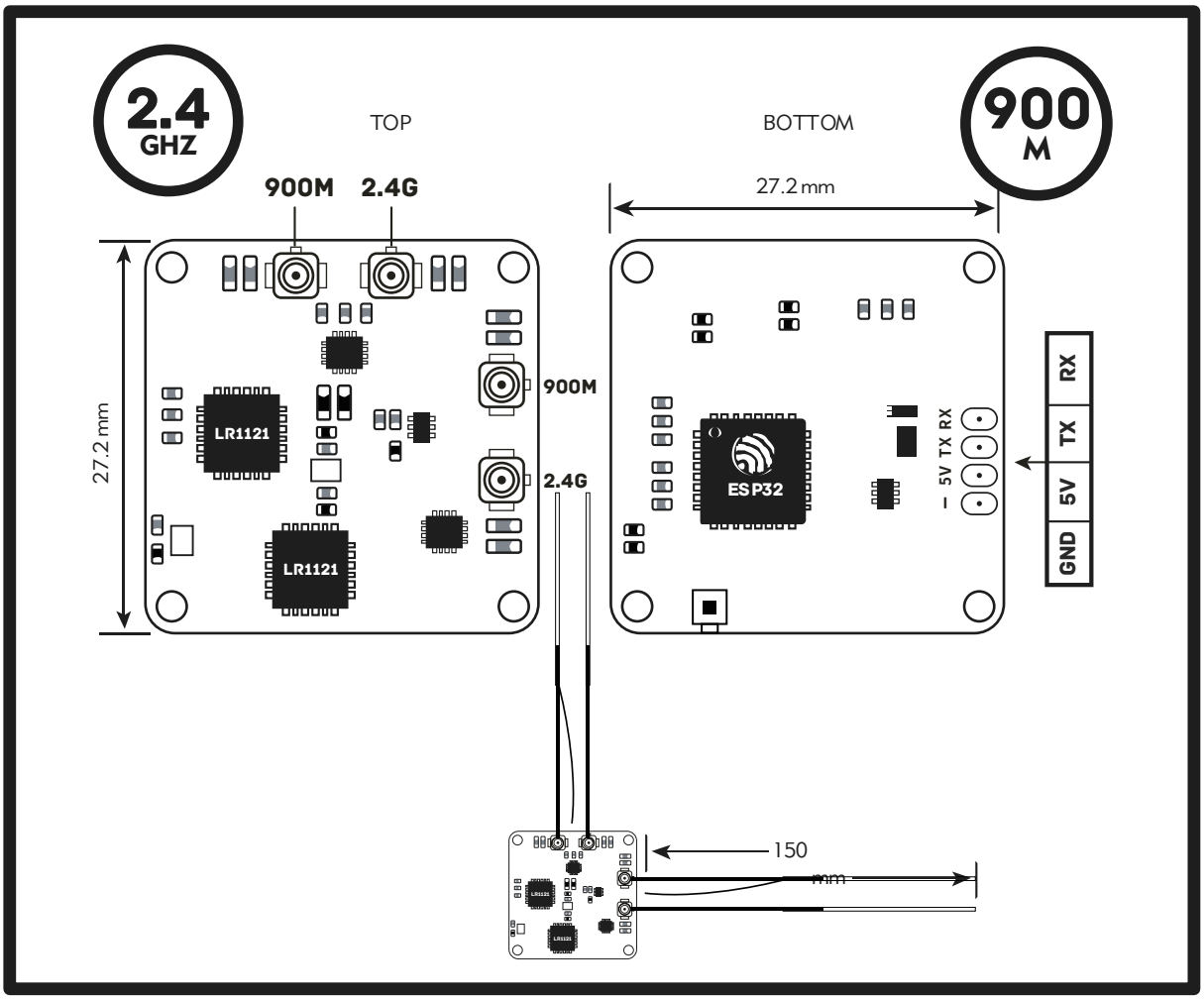
# DBR4 Receiver User Manual




## SPECIFICATIONS

- Item: DBR4 Dual Band Xross Gemini ExpressLRS Receiver
- Type: ISM 2.4G/ FCC 915M
- MCU: ESP32
- RF chip: Semtech LR1121 x 2
- Telemetry RF power: Max 100mw
- Antenna: 2x 2.4GHz wire & 2x 915MHz wire
- Frequency Range: 2.404 - 2.479 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

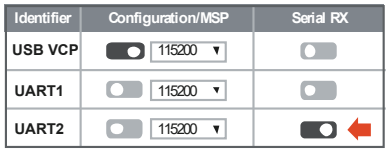
1 * DBR4 Dual band Xross Gemini ExpressLRS Receiver
2 * 2.4 GHz wire antenna
2 * 915 MHz wire antenna
1 * CRSF wire
4 * 4mm Red vibration dampeners
4 * 3mm Black vibration dampeners
1 * Manual card

## DEFAULT FIRMWARE

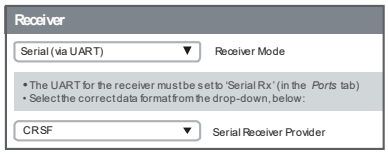
RadioMaster DBR4 Dual band Xross Gemini Receiver

For more information, please visit the ELRS website:
https://www.expresslrs.org/2.0/

## CONFIGURATION




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**



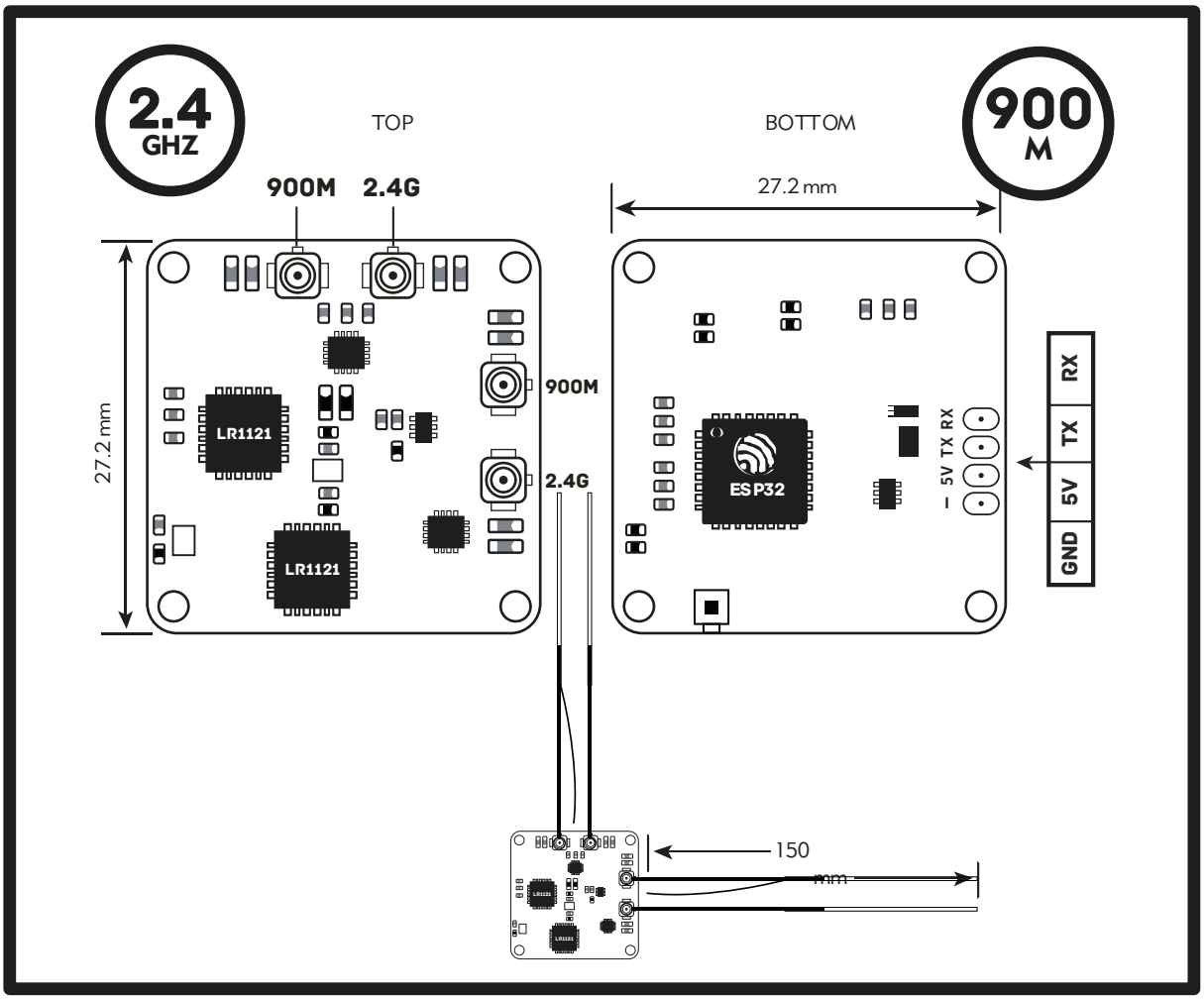

On the **Configuration** tab, click on **Serial-based receiver** on the **Receiver** panel, and select **CRSF**.

## 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!

# DBR4 Receiver User Manual




## 规格参数

•型号：DBR4 双频双路 Gemini ExpressLRS 接收机
•类型：ISM 2.4G/ FCC 915M
•MCU：ESP32
•射频芯片：Semtech LR1121 x 2
•射频功率：最大Max 100mw
•固件版本：预装ExpressLRS v3.3.2
•总线接口：CRSF
•天线：2×2.4GHz天线 & 2×915MHz天线
•频率范围：2.404 – 2.479 GHz / 903.5 – 926.9 MHz
•最大接收机刷新率：500Hz
（ExpressLRS V3.4 将很快支持1000Hz）
•最小接收机刷新率：50Hz
•工作电压：DC 4.5 – 8.4V
•重量：2.70g（不含天线）/ 5.30g（含天线）
•尺寸：27. 20 * 27. 20mm

## 包装清单

1 * DBR4 双频 Xross Gemini ExpressLRS 接收机
2 * 2.4 GHz 天线
2 * 915 MHz 天线
1 * CRSF线材
4 * 4mm 红色减震垫
4 * 3mm 黑色减震垫
1 * 服务卡

## 固件下载

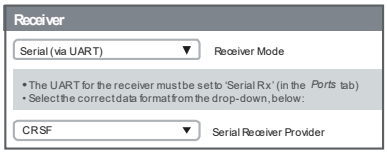
RadioMaster DBR4 Dual band Xross Gemini Receiver

For more information, please visit the ELRS website:
https://www.expresslrs.org/2.0/

## 设置

| Identifier | Configuration/MSP | Serial RX |
|---|---|---|
| USB VCP | 115200 | |
| UART1 | 115200 | |
| UART2 | 115200 | |

打开Betaflight Configuration，转到Ports端口选项卡并启用相应的UART作为Serial RX（例如，如上所示的UART2）保存并重新启动。




在Configuration选项卡上，单击Receiver面板上的Serial-based receiver，并选择CRSF。

## 对频方法

1：关闭遥控器
2：重复给接收机上电三次，接收机灯双闪，表明接收机处于对频模式
3：开启遥控器，进入ExpressLRS的LUA操作界面，选择到【BIND】按键确认
4：接收机灯常亮表明对频成功