RXLRS Professional Receiver

Professional Receiver Ultra Long Range RC & Telemetry

CE 869Mhz 100Km
FCC 902Mhz 200km
Custom...

Radio Control & Telemetry

Powerful and Safe with control

New Concept

Configuration of the mixes, button activation and assignment of encoders are performed in the RX and not in the TX XLRS as is usual in amateur RC systems.

FEATURES

- **Control max up to 16 CH RC.** Using the 7CH physical and the autopilot CH through SPPM in CH7.
- **8 Multifunction outputs** for RC servos.
- **1 SPPM / CPPM:** 12 RC channels in CH7.
- **1 Micro USB:** Update and configuration.
- **1 i2C:** To connect future devices, Oled display, sensors.
- **1 RCBUS:** Connect XOSD for serial communication.
- **1 MODEM port:** MAVLINK Telemetry and transparent radio modem.
- **1 Red Led:** TX RF or Transmit packets.
- **1 Blue Led:** Link RF or Received packets.
- **1 Connector antenna RC:** SMA-Female.

Compatible with XLRS devices:

TX: BTSD1, XPAD2-2017, XPAD2 V2, XPAD3, GCSD4.
OSD: XOSD, XOSDV2.

Hardware improvements:

Microcontroller with double memory FLASH, RAM and Eeprom.
Improved PCB, more protection in general.
Improved box, more robust, screws on inserts.
Internal protection against reverse polarity on + 5V servo connectors.
EDS protection and RF Filters in USB.
ESD protection (static) for all pins including servos.
Pins servos protection against short circuits and overloads.

MAVLINK protocol, compatible with autopilots:

APM, Pixhawk, PX4, etc.
No additional radiomodem is required.

Compatible with autopilots with S-BUS?

Yes, depending on the autopilot you can connect directly to CH7 (SPPM) or you can use a PPM to S-BUS converter.

It can be used in different RC models:

UAV, DRONES, VANT, RPAS, UUV, UGV, ROV, MULTIROTORS, CARS, HELICOPTERS, BOATS, etc.

TECHNICAL SPECIFICATIONS

Range RC & Telemetry: CE 100Km, FCC 200Km.
Frequency: CE: 869,4-869,65Mhz +27dBm EIRP.
FCC: 902-927,5Mhz. +36dBm EIRP.
CUSTOM: Max +30dBm, 1W.
Multi Band: 433 or 866, 868, 902, 915, 950Mhz.
Max RF power: CE +22dBm. FCC +30dBm.
Sensitivity max: -116dBm @50kb.
Modulation: 50 or 100Kb. FHSS.
Stability: TXCO +-1ppm.
Encryption: AES optional.

Voltage: 5V. Min 4.5V. Max 6Vcc.
Consumption: Standby 70mA.
Max. TX(500mW) 540mA@12mS.

Connectivity: RC, Telemetry, USB, RCBus, SPPM, COM5, MODEM.

Upgradable and Configurable: DMDStudio Soft.
Compatible: ALPHA Commands and DMD devices.

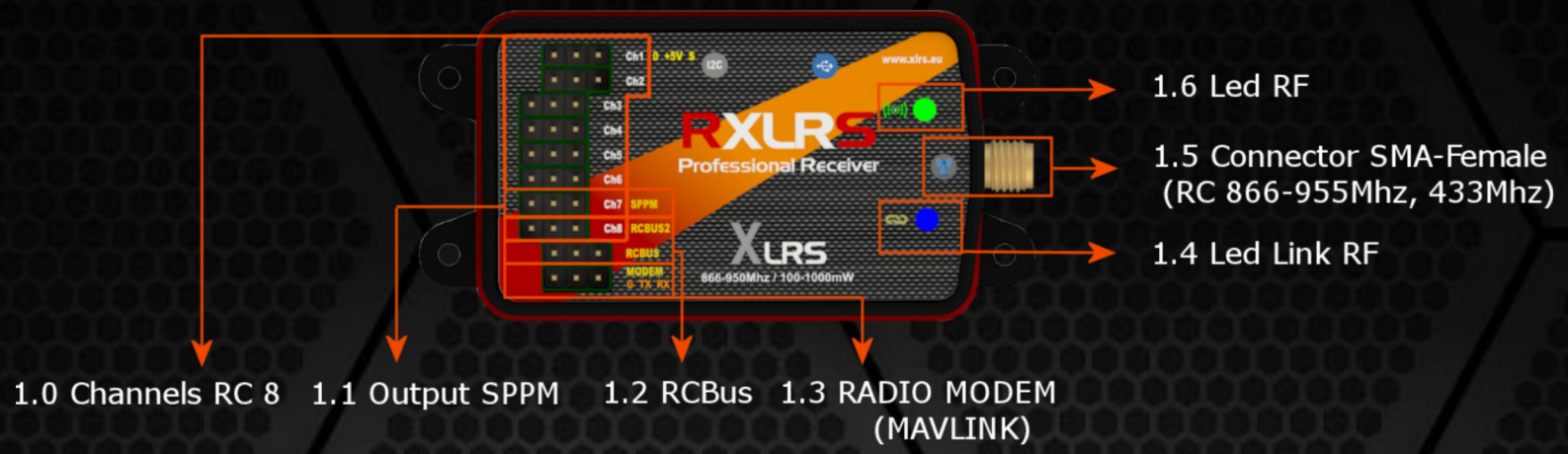
Dimension: 70,78 x 35,75 x 14,78mm.
Weight: 30g (Without ant.) / 47g (With ant. 5dBi).
Box: Plastic and fiber base 2mm.

**Some product features are optional.*

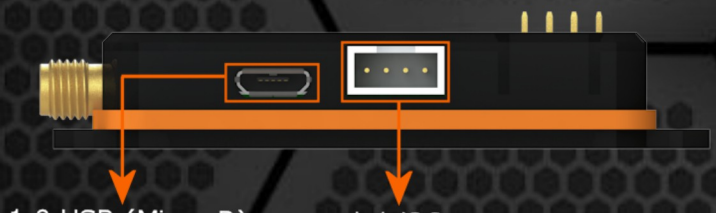
XLRS EXTENDED
www.xlrs.eu

RXLRS

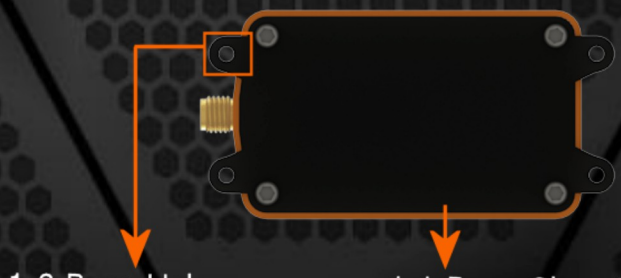
Connections



1.0- Channels RC: 8 Multifunction outputs for RC servos.
1.1- Output SPPM / CPPM: 12 RC Channels in CH7.
1.2- RCBUS: Serial comunication XOSD or others XLRS devices.
1.3- MODEM port: MAVLINK Telemetry and radio modem transparent.
1.4- Led Blue: Link RF or Received packets.
1.5- Connector Antenna: SMA-Female for RC.
1.6- Led Red: TX RF or Transmit packets.



1.0- USB (Micro-B): Update and configuration RX.
1.1- i2C: To connect future devices, OLED displays, IMU, etc.



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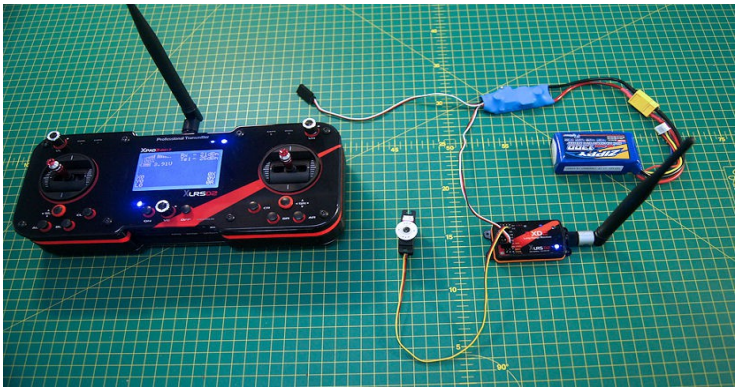
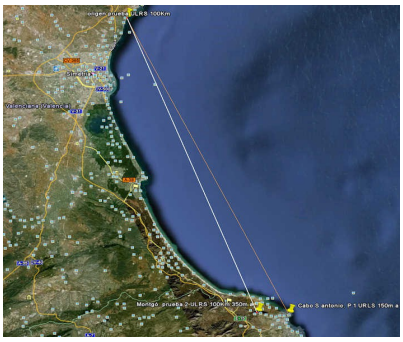
- **RXLRS Manual:**
  - Introduction RXLRS.
  - First steps (Quick guide).
  - XLRS connection diagrams.
  - New concept Radio Control.
  - Link with XLRS Transmitter.



- **DMDStudio Manual.**

- **Learn more about:**
  - Servos XLRS.
  - XLRS objects.
  - Range, Rssi, Noise in environments UAV – Drones.
  - Range Test XLRS.
  - RF Band RF ISM-ICM.



- **More information here:**
  - Manuals XLRS.

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