

# Technical Characteristics

## DL1TXV2



### Internal Battery:

**Average consumption:** 320mAh.

**Voltage:** 3.7V | 4.2V at full load.

**Capacity:** 5000mAh.

**Cells:** 1.

**Type:** Lithium Polymer.

**Approximate duration:** 14h.

### General:

**Dimensions:** 120 x 102 x 30mm.

**Box:** PLA plastic.

**Fiber or aluminum base:** It has 4 threaded brass inserts of M3.

**Weight:** 250g approx. (Without antenna).

**IP Protection:** IP30.

**Temperature Range:** -20° to +55°C.

## DL1RXV2



### Power Supply:

**Voltage:** 5V. Min 4.5V. Max 6Vdc. (To work or do tests, don't power the device via USB.)

**Consumption:** Standby 70mA.

**Max consumption:** TX(500mW) 540mA @12mS.

### General:

**Dimensions:** 70.78 x 35.75 x 14.78mm.

**Box:** PLA plastic.

**Fiber base:** 4 holes for M3 screws.

**Weight:** 30g (Without antenna). | 47g (With 5dbi omnidirectional antenna.)

## DL1V2 system, Radio XLRS

**Maximum RC and Telemetry range:** 250Km [LOS](#), RX 5dBi with

omnidirectional antenna and TX with directional antenna 9dBi (BQ89, MX433, Yagui...). @50kb. | To obtain the maximum range of the system, a [SATPRO tracker antenna](#) is necessary.

**Encryption:** AES128 bits.

**Max Power:**

**CE:** 500mW (+27dBm).

**FCC:** 500mW (+27dBm).

**Custom:** 1000mW (+30dBm).

**Max Sensitivity:**

-110dBm @50Kb (500mW).

-116dBm @50Kb (1000mW).

**RF Bands:** [ISM](#) 433, 458, 863, 866, 868, 902, 915, 955Mhz. Configurable.

**Standards:** CE (Europe), FCC (America), ARIB (Japan), ETA (India).

IEE 802.15.4g ETSI EN 300 220, EN 54-25, FCC CFR47 Part 15, Part 90, ARIB STD-T30, T67, T108.

**Frequency:** From 863Mhz to 950Mhz or 433Mhz to 458Mhz. (Optional: 430Mhz).

**CE:** 869.4Mhz – 869.65Mhz.

**FCC:** 902Mhz – 927.5Mhz.

**Custom:** 433Mhz, others...

**Multiband:**

**DL1RX-89 or DL1TX-89 :** 863, 866, 868, 902, 915, 950Mhz.

**DL1RX-43 or DL1TX-43:** 433Mhz.

**RF Filtering:** Digital. Compatible 1.2Ghz, 2.4Ghz and 5.8Ghz video.

**Channeling:** Configurable 25, 50, 100, 150, 500Khz.

**Modulation:** 25, 50, 100, 150kb, configurable. 2-GFSK, FHSS.

**RSSI:** Digital. Calibrated +/-1dBm.

**Packets:** Typical: 40 per second (25msec latency). Configurable 1, 10, 20, 40 packets/sec.

**RF module:** [Radio 5G \(WMX5H\)](#).

**Upgradable / Configurable:** With DMStudio software via micro USB port.