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 appox. (Without antenna).

IP Protection: IP30.

Temperature Range: -20º to +55ºC.

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 DMDStudio software via micro USB port.