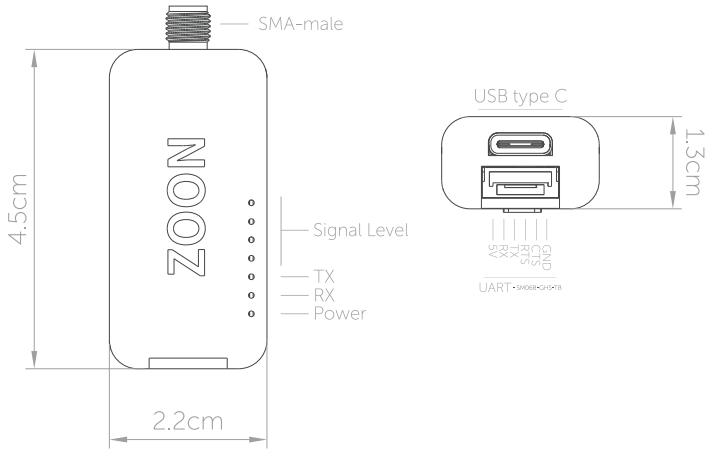


# ZOON TECH SPECS



FREQUENCY RANGE: 2.4GHz — 2.5GHz  
 RADIO POWER RANGE: 20dBm — -18dBm  
 WEIGHT: 11g

RADIO MODULATION: CHIRP SPREAD SPECTRUM (LoRa)  
 MAX POWER CONSUMPTION: 0.85Watt

\*NOTE MAX RADIO POWER RANGE varies for models, 20dBm is for ZOONv3

## HOW TO CONFIGURE ZOON

1. Enter to website <https://zoon.dronee.aero> with Chrome web browser!
2. Install zoon.crx extension from the DOWNLOAD (<https://zoon.dronee.aero/zoon.crx>) link
3. Restart web browser
4. Re-plug ZOON module
5. Re-enter to website <https://zoon.dronee.aero>
6. Select the ZOON module from PORT LIST
7. Select baud rate and click connect. By default ZOON comes with 115200 baudrate connection
8. From SETTINGS click "READ ALL SETTINGS"; ZOON module will enter to CONFIGURE mode
9. EDIT parameters, click "WRITE ALL SETTINGS" to save

## PARAMETERS:

**MODE:** Physical mode of transceiver, list is enumerated below

**FREQUENCY:** Physical frequency of transceiver. Range: 2.4-2.5GHz

**MAX DELAY:** Max buffering delay before sending data in microseconds

**MESH ENABLED:** In order to use with mesh functionality. You need to enable it from settings

**MESH ID:** Id of unit in the mesh network if mesh is enabled. (0 is for broadcast)

**MESH REPEATER:** Extends range of mesh network by repeating received signal

**MAVLINK RSSI:** Adds MAVLINK\_RSSI packets after every HEARTBEAT

**MAVLINK SWARM:** Prevents mavlink packet fragmentation, ideal for mesh networks

**MAVLINK NEVER LOST:** Activates NEVERLOST MODE after loss of signal within NEVERLOST INTERVAL

**NEVER LOST MODE:** Mode will be activated if ZOONs loose connection for NEVERLOST INTERVAL

**NEVER LOST PACKET ID LIST:** List of mavlink packet ids to be filtered only and transmitted if the connection is lost for NEVERLOST INTERVAL seconds

MODE	EFFECTIVE DATA RATE	FREQUENCY BANDWIDTH	RECEIVER SENSITIVITY
0	0.595 Kbps	203 KHz	-132 dB
1	2.18 Kbps	406 KHz	-127 dB
2	6.34 Kbps	203 KHz	-120 dB
3	12.69 Kbps	406 KHz	-118 dB
4	25.38 Kbps	812 KHz	-117 dB
5	31.72 Kbps	203 KHz	-111 dB
6	44.41 Kbps	812 KHz	-114 dB
7	76.13 Kbps	812 KHz	-110 dB
8	126.88 Kbps	812 KHz	-107 dB
9	152.34 Kbps	1625 KHz	-105 dB
10	253.91 Kbps	1625 KHz	-101 dB

The radio is fully compliant with all worldwide **2.4 GHz** radio regulations including **EN 300 440, FCC CFR 47 Part 15** and the **Japanese ARIB STD-T66**.

[dronee.aero/zoon](https://dronee.aero/zoon)