



RF EXPOSURE EVALUATION

FCC ID: 2BXCX-WT1

Product Name	:	Video walkie-talkie
Model Name	:	WT1
Specification	:	802.11b/g/n HT20/HT40
Operating frequency	:	2412-2462MHz for 802.11b/g/ n(HT20) 2422-2452MHz for 802.11 n(HT40)
Numbers of Channel	:	11 Channels:2412-2462MHz for 802.11b/g/ n(HT20) 7 Channels:2422-2452MHz for 802.11 n(HT40)
Smart System	:	802.11 b/g/n20/n40
Antenna Type	:	Integrated Antenna
Antenna Gain	:	2.62 dBi
Type of Modulation	:	DSSS with DBPSK/DQPSK/CCK for 802.11b; OFDM with BPSK/QPSK/16QAM/64QAM for 802.11g/n;
Power Supply	:	Input: DC 5V 1A Battery: Li-ion Battery :802540 Rated Voltage: 3.7V Rated Capacity:800mAh
Hardware Version	:	N/A
Software Version	:	N/A



Standard Requirement

According to § 15.247(i) and § 1.1307b(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess of the Commission's guidelines. See KDB 447498 D01 General RF Exposure Guidance v06, section 4. 3. 1.

The 1-g and 10-g SAR test exclusion thresholds for 100MHz to 6GHz at test separation distances $\leq 50\text{mm}$ are determined by:

$$\left[\frac{(\text{max. power of channel, including tune-up tolerance, mW})}{(\text{min. test separation distance, mm})} \right] \sqrt{f(\text{GHz})} \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g SAR extremity SAR, where}$$

- $f(\text{GHz})$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison.

The test exclusions are applicable only when the minimum test separation distance is $\leq 50\text{mm}$ and for transmission frequencies between 100MHz and 6GHz. When the minimum test separation distance is $< 5\text{mm}$, a distance of 5mm is applied to determine SAR test exclusion. Routine SAR evaluation refers to that specifically required by § 2.1093, using measurements or computer simulation. When routine SAR evaluation is not required, portable transmitters with output power greater than the applicable low threshold require SAR evaluation to quality for TCB approval.

Channel (MHz)	Maximum output power (dBm)	Maximum EIRP (dBm)	Tune up tolerance (dBm)	Max Tune Up Power (mW)	Distance (mm)	Calculation results	Limit	Operating Mode
2462	6.54	9.16	9.16 ± 0.5	9.246982	5	2.901844	3	11N20SISO

According to KDB 447498, This device supports only a single wireless function, and the calculation results meet the requirements, and no simultaneous SAR measurement is required.

Signature

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Manager

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