

RT7 TITAN

Tune up procedure

Tune up procedure shall be over the power range or at specific operating power levels.

1. It must provide an operational voltage (12V DC) to turn on the device and on one certain channel in service mode by means of company proprietary software.
2. Base station simulator (CMU 500) measures the Mobile phone device specific RF characteristics.
3. The maximum gains of each individual device are adjusted until the target value met.

Tune-up Power		
Mode	Frequency Bands	Tune-up Power
LTE	BAND 2	21dBm \pm 1dB
LTE	BAND 4	22dBm \pm 1dB
LTE	BAND 5	22dBm \pm 1dB
LTE	BAND 7	22.5dBm \pm 1dB
LTE	BAND 12	22dBm \pm 1dB
LTE	BAND 17	21dBm \pm 1dB
2G	GSM850	31dBm \pm 1dB
2G	GSM1900	29dBm \pm 1dB
3G	WCDMA Band 2	19.5dBm \pm 1dB
3G	WCDMA Band 5	21.5dBm \pm 1dB
WIFI	5GHz	6dBm \pm 1dB
WIFI	2.4GHz	7dBm \pm 1dB
BT	2.4GHz	1dBm \pm 1dB
BLE	2.4GHz	0dBm \pm 1dB

Then these appropriate gain settings are stored in each device individually.

The user has no possibility to change these settings later on, and during manufacturing each device will be individual calibrated. The measurement is done in fully calibrated setup, which is based on a CMU 500 base station simulator. Furthermore, the highest power level is verified afterwards in a call measurement on three channels (low, middle and high).