

**THEORY OF OPERATION for LTE**

LTE			
a) The DC V/I at the final RF amplifier device			
DC voltage		4.2V max	
DC current		20uA at sleep mode, 450mA peak at TX mode.	
b) The frequency stabilizing and limiting TX power			
X2750	Crystal oscillator		This crystal is a reference signal source of frequency synthesizer.
IC100	RF-IC		IC100 is a highly integrated transceiver module that supports 3GPP LTE/WCDMA/EGPRS wireless terminals. The features are following. 1. LTE Band : 1, 2, 3, 4, 5, 7, 8, 12, 17, 18, 28, 38, 39, 40, 41, 42 (This handset is not using the features for Band 6,9,10,11,13,14,19,20,21,23 to 27,29,30,32,66,67 and 71 LTE-FDD, Band 34, 39, 40, 43, 46 and 48 LTE-TDD.) 2. LTE DL category 18 and UL Category 18
IC1000	Host CPU LSI		IC1000 is a highly integrated digital baseband controller ASIC. Including XO control block.