

Hardware specification

Integrated circuit: 11 mm for length and width

Capacitor: with exactly 10uF of storage, $V_{High} = 1.6V$ and $V_{Low} = 1.2V$

PMU: Need to consume less than 200nA in a charging phase

The voltage reference circuit of PMU: 250mV

The antenna range: 8Ghz-10Ghz

X-band PA are used to transmit an RF power: ranging from 30dBm to 40dBm