

Oct 24, 2023

Declaration of ST6000 modular transmitting power

To whom it may concern,

ORBCOMM Inc is a global leading manufacturer who design mobile IoT devices for industrial/commercial equipment/assets tracking, controlling and management.

ORBCOMM modular product ST6000, FCC ID XGS-ST6000, is designed for operating in Inmarsat IDP satellite network. The transmitting power is designed to target the maximum EIRP power of 37dBm per Inmarsat network specification. In production, the transmitting power is typically set at 35.5dBm EIRP and with +/-1.0dB tolerance typical. The hard limit for the maximum power is 37.0dBm.

The ST6000 test samples are normally randomly picked up from production so their transmitting power could be typically anywhere between 34.5 to 36.5dBm (EIRP), with the maximum bellow 37dBm. As such, the EUT sample used for FCC test has been measured with output power shown in the following table, which are in normal range as described in the above..

Waveform /Channel	Low Frequency(MHz)	High Frequency(MHz)	Rated RF power output (W)
1	1626.500625	1660.499375	1.82
2	1626.501	1660.499	1.905
3	1626.502	1660.498	1.862
4	1626.504	1660.496	1.738
5	1626.508	1660.492	1.413

Sincerely,



Xinming Wang

Director, Hardware Integrity & Regulations

DOC ID: ORBC-CERT-HW230045 REV 1.0

