



411 Borel Ave, Suite 100, San Mateo, CA 94402

Transmission Duty Factor

August 22, 2017

Subject: **RF Transmission Duty Factor**

To whom it may concern:

The OB100 lock contains 4 radio transmitters, a WiFi radio, a proximity sensor, an inside and outside Bluetooth radio. There are 3 antennas. The inner Bluetooth radio and WiFi radio share an antenna. The Bluetooth and WiFi radios that share the antenna use it one-at-a-time, and never transmit simultaneously over it.

The RF transmit power on the Bluetooth radios and the proximity sensor fall below the SAR test threshold.

The WiFi transmission falls above the SAR threshold before its transmission duty factor is considered. The antenna used by the WiFi radio is less than 5 mm from the nearest user accessible surface. However, the OB100 firmware monitors the WiFi radio transmission duty factor, limiting it to under 10%. When the duty cycle is considered, the OB100 WiFi radio is under the SAR test threshold.

Sincerely Yours,

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