

RF Exposure Statement

For hand held host configurations, the hand is located on the bottom casing of the unit under the keypad section. Both antennas are located inside the product and under the LCD.

For handheld mobile computing devices. The antennas will always be located more than 20 cm from a persons body (excluding hands, wrist and feet) during normal hand held operation.

The equipment complies with the general population / uncontrolled maximum permissible exposure requirements of cfr 47 section 1.1310

802.11 Output power 14.3 mW, Antenna Gain 2.75 numeric

802.11 Power flux density = $39.4/4/\pi/20^2 = 0.00784 \text{ mW/cm}^2$

BT Output power 1.77 mW, Antenna Gain 1.86 numeric

Bluetooth Power flux density = $3.3/4/\pi/20^2 = 0.0006565 \text{ mW/cm}^2$

Fractional power flux density = $0.00784/1 + 0.0006565/1 = 0.0085$

Limit = 1

There is no provision for simultaneous transmission of BT and 802.11bg

For host configurations that lend themselves to lap to use.

This equipment is below the low threshold for SAR evaluation under general public exposure conditions for distances greater than 2.5 cm. During normal usage the antennas will be more than 2.5 cm from the a persons body.

For laptop host configurations the manufacturer will ensure that there is at least 2.5 cm from the antenna to the bottom of the enclosure.

802.11 b/g peak output power 11.56 dBm

antenna peak gain 4.4 dBi

eirp $11.56 + 4.4 = 15.96 \text{ dbm, } 39.4 \text{ mW}$

Bluetooth peak output power 2.48 dBm

antenna peak gain 2.7 dBi

eirp $2.48 + 2.7 = 5.18 \text{ dBm, } 3.3 \text{ mW}$

Total combined eirp $39.4 + 3.3 = 42.7 \text{ mW}$

Low threshold $120/2.480 = 48.4 \text{ mW}$