

RF Maximum Permissible Exposure

IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Field, 3 KHz to 300 GHz (IEEE C95.1 –1991) and FCC Rule 1.13.10, Radio Frequency Radiation Exposure Limits

November 7, 2000

Dear Sir,

The Proxim Harmony 802.11b Access Point operates in the 2.4 GHz ISM band. The product was not designed to be worn on the body, nor was it designed as a mobile device. The product is intended to be static infrastructure device used in corporate and enterprise environments and works in conjunction with other Ethernet 10/100 BaseT networking equipment. The typical human exposure will be no closer than 8”(20cm) away and usually several feet away from the device.

This Access Point was tested at CCS EMC laboratory on dates 8/28/00 and 8/29/00 and again on 11/7/00. At this time the worst case measurement of peak power measurement was 16 dBm. The Diversity antenna was designed with a maximum gain of 2.0 dBi. At 16 dBm and 2.0 dBi, the peak EIRP is 18 dBm or 63 mW. The calculated MPE distance at which far field is 1 mW/cm^2 is 0.9” (2.2 cm). Please see supporting document “MPE802” which is an excel spreadsheet with the MPE calculation presented.

Since Proxim believes that is highly unlikely and highly inconvenient to operate the equipment at 2.2 cm or even 20 cm away from the human body, it will not be inconvenience or burden to follow along with the 20 cm guideline. Proxim proposes to include the following warning in the IMK-HARDSAP User’s manual:

“Warning! It is the responsibility of the installer and users of the Harmony 802.11b Access Point Model 8550 to guarantee that the antenna is operated at least 20 centimeters from any person. This is necessary to insure that the product is operated in accordance with the RF guidelines for Human Exposure which have been adopted by the Federal Communications Commission.”

Sincerely,

Theresa Loney Casarez
Product Design Manager
Proxim, Inc.