



Maximum Permissible Exposure Calculations

Date of Report: 12/10/03

Calculations prepared for:

IP Mobilenet

Calculations prepared by:

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CKC Laboratories, Inc.
5473A Clouds Rest Road
Mariposa, CA 95338

Model Number: M32450-25

FCC Identification:

Fundamental Operating Frequency: 450 - 480 MHz

Maximum Rated Output Power: 40 Watts

Measured Output Power: Mid Channel, 465 MHz 39.89 Watts

Measured Output Power: Low Channel, 450 MHz 42.66 Watts

Measured Output Power: High Channel, 480 MHz 36.3 Watts

Power Output and Operating Frequency Information used for these calculations were from:
CKC Laboratories, Test Report #

MPE Limit in accordance with 1.1310(b): Limits for general population/uncontrolled exposure

$$\text{MPE Limit} = 0.3 \text{ (mW/cm}^2\text{)}$$

EIRP (mW)	Distance (meters)	Power Density (mW/cm ²)	Result
3988.41	1.0276	0.3	Pass
4266.00	1.0637	0.3	Pass
36307.81	0.9814	0.3	Pass

$$\text{PowerDensity (mW / cm}^2\text{)} = \frac{\text{EIRP}}{4\pi d^2}$$

Given: **EIRP** in *mW* and **d** in *cm*

Note: Antennae are not sold with this equipment; EIRP is listed assuming a 0dBi gain antenna.

As can be seen from the MPE results, this device passes the limits specified in 1.1310 at a distance of 1.0637 meters and at a output power of 42.66 watts assuming a 0dBi gain antenna. Users and installers must be provided with appropriate antenna installation instructions and transmitter

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satisfying RF exposure compliance.

operating conditions, including antenna co-location requirements of §1.1307(b)(3), for

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