



A UNOVA Company

**Intermec Technologies Corporation**  
550 Second Street S.E.  
Cedar Rapids, IA 52401

319.369.3865 tel  
319.369.3299 fax  
[www.intermec.com](http://www.intermec.com)

June 6, 2003

To Whom It May Concern:

Intermec Technologies, Corp. hereby declares that our Model 700C Pen Computer for Data Collection with 2.4 GHz DSSS transceiver is categorically excluded from routine environmental evaluation for RF exposure by its classification as a 15.247 handheld mobile radio operating with approximately 100 mW EIRP. Below is a table showing MPE evaluation of the product with both antenna options.

$$S = (PG)/4\pi R^2$$

Where: S = power density (mW/cm<sup>2</sup>)

P = power input to the antenna (mW)

G = linear power gain relative to an isotropic radiator

R = distance to the center of the radiation of the antenna (20 cm = limit for MPE estimates)

Solving for S, the maximum power densities 20 cm from the transmitting antennas are as follows:

Antenna Manufacturer	Antenna Type	Antenna Part No.	Transmit Frequency (MHz)	Max Peak Conducted Output Power (mW)	Antenna Gain (dBi)	Power Density @ 20 cm (mW/cm <sup>2</sup> )	Maximum Permitted Power Density (mW/cm <sup>2</sup> )
Mobilemark	tuned dipole	805-606-001	2400	89	1.3	0.024	1
SeaRay	folded monopole	805-608-002	2400	89	-2	0.011	1



A **UNOVA** Company

**Intermec Technologies Corporation**  
550 Second Street S.E.  
Cedar Rapids, IA 52401

Intermec Technologies, Corp. hereby declares that our Model 700C Pen Computer for Data Collection with 2.4 GHz FHSS transceiver is categorically excluded from routine environmental evaluation for RF exposure by its classification as a 15.247 handheld mobile radio operating with approximately 1 mW EIRP. Below is a table showing MPE evaluation of the product with the integral antenna.

$$S = (PG)/4\pi R^2$$

Where: S = power density (mW/cm<sup>2</sup>)

P = power input to the antenna (mW)

G = linear power gain relative to an isotropic radiator

R = distance to the center of the radiation of the antenna (20 cm = limit for MPE estimates)

Solving for S, the maximum power densities 20 cm from the transmitting antennas are as follows:

Antenna Type	Antenna Part No.	Transmit Frequency (MHz)	Max Peak Conducted Output Power (mW)	Antenna Gain (dBi)	Power Density @ 20 cm (mW/cm <sup>2</sup> )	Maximum Permitted Power Density (mW/cm <sup>2</sup> )
Integral	ABTM3	2400	3.78	-5.77	.00020	1



A **UNOVA** Company

**Intermec Technologies Corporation**  
550 Second Street S.E.  
Cedar Rapids, IA 52401

Intermec Technologies, Corp. hereby declares that our Model 700C Pen Computer for Data Collection with 1900 MHz GSM/GPRS transceiver is categorically excluded from routine environmental evaluation for RF exposure by its classification as a Part 24 handheld mobile radio operating with approximately 470 mW EIRP. Below is a table showing MPE evaluation of the product.

$$S = (PG)/4\pi R^2$$

Where: S = power density (mW/cm<sup>2</sup>)

P = power input to the antenna (mW)

G = linear power gain relative to an isotropic radiator

R = distance to the center of the radiation of the antenna (20 cm = limit for MPE estimates)

Solving for S, the maximum power densities 20 cm from the transmitting antennas are as follows:

Antenna Manufacturer	Antenna Type	Antenna Part No.	Transmit Frequency (MHz)	Max Peak Conducted Output Power (mW)	Antenna Gain (dBi)	Power Density @ 20 cm (mW/cm <sup>2</sup> )	Maximum Permitted Power Density (mW/cm <sup>2</sup> )
Mobilemark	¼ wave monopole	805-606-003	1900	933	-3	0.093	1
Mobilemark	¼ wave monopole	805-606-204	1900	933	-4	0.074	1

**Intermec Technologies Corporation**  
 550 Second Street S.E.  
 Cedar Rapids, IA 52401

Intermec Technologies, Corp. hereby declares that our Model 700C Pen Computer for Data Collection with 2.4 GHz DSSS, 2.4 GHz FHSS, and 1900 MHz GSM/GPRS transceivers is categorically excluded from routine environmental evaluation for RF exposure by its classification as a Part 15/24 handheld mobile radio operating with a total output power of approximately 570 mW EIRP. Below is a table showing MPE evaluation of the product with all antenna options.

$$S = (PG)/4\pi R^2$$

Where: S = power density (mW/cm<sup>2</sup>)

P = power input to the antenna (mW)

G = linear power gain relative to an isotropic radiator

R = distance to the center of the radiation of the antenna (20 cm = limit for MPE estimates)

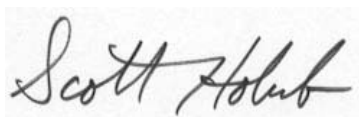
Solving for S, the maximum power densities 20 cm from the transmitting antennas are as follows:

Antenna Manufacturer	Antenna Type	Antenna Part No.	Transmit Frequency (MHz)	Max Peak Conducted Output Power (mW)	Antenna Gain (dBi)	Power Density @ 20 cm (mW/cm <sup>2</sup> )	Maximum Permitted Power Density (mW/cm <sup>2</sup> )
Mobilemark	¼ wave monopole	805-606-003	1900	933	-3	0.093	1
Mobilemark	¼ wave monopole	805-606-204	1900	933	-4	0.074	1
Mobilemark	tuned dipole	805-606-001	2400	89	1.3	0.024	1
SeaRay	folded monopole	805-608-002	2400	89	-2	0.011	1
Integral	Integral Ceramic	ABTM3	2400	3.78	-5.77	.00020	1

The worst case total for these radio options is .117 mW/cm<sup>2</sup> on a 1 mW/cm<sup>2</sup> limit.

If you have any questions regarding this product, please feel free to contact me (phone: 319 369 3865, fax: 319 369 3299, email: [scott.holub@intermec.com](mailto:scott.holub@intermec.com)).

Sincerely,



Scott Holub  
 Regulatory Compliance Engineer III

Intermec Technologies Corp.