

| Test Report Serial No.: | 061506KBC-T | Issue 1 | | | |
|-------------------------|----------------------------|--------------------|------------|--|--|
| Test Date(s): | 28Jun04 - 29Jul04, 22Oct04 | | | | |
| Test Type(s): | FCC §15.247 | IC RSS-210 Issue 5 | | | |
| Lab Registration(s): | FCC #714830 | IC Lab | File #3874 | | |

Appendix D - Maximum Permissible Exposure Calculation

| D.1. REFERENCES | |
|---------------------------------|--|
| Normative Reference Standard | FCC CFR 47§1.1310 IEEE Std C95.1-1999 |
| Procedure Reference | FCC CFR 47§2.1091 |

| D.2. LIMITS | |
|------------------------------|------------------------|
| FCC CFR 47§1.1310 Table 1(b) | 1.0 mW/cm ² |

| D.3. ENVIRONMENTAL CONDITIONS | | | | | |
|-------------------------------|----|--|--|--|--|
| Temperature | na | | | | |
| Humidity | na | | | | |
| Barometric Pressure | na | | | | |

| D.4. EQUIPMENT LIST | | | | | | | | |
|---------------------|--------------|-------|-------------|----------|---------|--|--|--|
| ASSET NUMBER | MANUFACTURER | MODEL | DESCRIPTION | LAST CAL | CAL DUE | | | |
| na | | | | | | | | |

| D.5. MEASUREMENT EQUIPMENT SETUP | | | | | | |
|---|--|--|--|--|--|--|
| MEASUREMENT EQUIPMENT CONNECTIONS | The results described herein were determined by calculation, so no measurement equipment was used. | | | | | |
| MEASUREMENT EQUIPMENT SETTINGS | na | | | | | |

D.6. SETUP PHOTOS

na

D.7. SETUP DRAWINGS

na

D.8. DUT OPERATING DESCRIPTION

na

| Applicant: | Itronix C | orporation | IC ID: | Not applicable | FCC ID: | KBC | CIX260PROAC860 | | ITRONIX [®] | |
|---------------|--|------------|--------|----------------|---------|-----|-----------------------|--|-----------------------------|--|
| | | | | | | | IRAL DYNAMICS COMPANY | | | |
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| alculation: | | | | | |
|---|--------------------------|--|--|---|-----------------------|
| angeStar Inte | ernal Antenna (802.11b n | node): | | | |
| - | | | Tx Frequency: ntenna Input Terminal: Antenna gain: | 2462.00 (MHz) 17.48 (dBm 4.50 (dBi) |) |
| | | S= P= G= | 1.00 (mW/cm^2 55.9758 (mW) 2.82 (numeric) | 2) | |
| | | R = | 3.54 (cm) | | |
| | | | S (mw/cm^2) | at 20cm = 0.03135157 | 75 |
| angeStar Inte | ernal Antenna (802.11g n | node). | | | |
| | | | Tx Frequency: ntenna Input Terminal: Antenna gain: | 2462.00 (MH 16.15 (dBi 4.50 (dBi | n) |
| | | S= P= C= | 1.00 (mW/cm*) 41.2098 (mW) 2.82 (numeric) | | |
| | | R = | <mark>3.04 (</mark> cm) |] | |
| | | | S (mw/cm^2) |) at 20cm = 0.0230812 | 52 |
| ormulae: | | | | | |
| $S = \frac{PG}{4\pi R^2}$ $R = \sqrt{\frac{P}{4\pi S}}$ | P = P G = N | ower Density Limit ower Applied to the lumeric Antenna G istance from Anter | e Antenna ain | | |
| | | | | | |
| esults: | | | | | |
| Mode | Power Density Limit | RF Conducted Output Power | Antenna Gain | MPE Distance | Power Density at 20 c |
| | mW/cm ² | dBm | dBi | cm | mW/cm ² |
| 802.11b | 1.0 | 17.48 | 4.5 | 3.54 | 0.031 |
| | 1.0 | 16.15 | 4.5 | 3.04 | 0.023 |

| Applicant: | Itronix C | orporation | IC ID: | Not applicable | FCC ID: | KBCIX260PROAC860 | | ITRONIX | |
|---------------|-----------|--|--------|----------------|---------|------------------|--|---------|-----------------------|
| Rugged Lap | | | | | | | | | IRAL DYNAMICS COMPANY |
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D.10. PASS/FAIL

In reference to the results outlined in D.9 the DUT passes the requirements as stated in the reference standards as follows: 1) The DUT must comply with the minimum spacing requirement of 20 cm to ensure an exposure of not more than 1 mW/cm².

D.11. SIGN-OFF

I attest to the accuracy of the data. All measurements reported herein were performed by me and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements.

M. W. Pupe

Russell Pipe Senior Compliance Technologist Celltech Labs Inc.

> 04Aug04 Date

| Applicant: | Itronix C | orporation | IC ID: | Not applicable | FCC ID: | KBC | CIX260PROAC860 | IT | TRONIX | |
|---|--|------------|--------|----------------|---------|---------------|----------------|-----------------------|---------------|--|
| Rugged Laptop PC with Intel Pro 2200BG 802.11b/g WLAN Mini-PCI Card | | | | | Model: | IX260PROAC860 | | ERAL DYNAMICS COMPANY | | |
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