COM DEV/REC
April 4, 2002
FCC 731

Electronic
FCC §2.1033
APPLICATION FOR CERTIFICATION
M/ERGY "Access Point" (AP)

This application is submitted to the Federal Communications Commission (FCC) for an Equipment Authorization. The device falls under FCC Rules as a Broadband PCS subject to Subpart C & E with Certification procedures required in FCC §24.51. Certification procedures are defined in FCC Part 2 Subpart J §2.1031 for certification as specified in §24.51(a)(b)(c) and §24.52 R. F. Hazards. This application for certification is contained in §2.1033:

"Application for Certification." §2.1033

(a) See FCC for filed electronically
(b) Section (b) is not applicable
(c) Certification Technical Report required for "Access Point" (AP) follows:

(1) Applicant & Manufacturer: **FRN #0005-0583-00**
COM DEV Broadband
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San Luis Obispo, CA 93401
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(2) FCC Identifier **JJA-90010000XX**

(3) Copy of Operation Manual **See Exhibit A**

(4) Type of Emissions **Spread Spectrum Ex. B**

(5) Frequency Range
M/ERGY "Access Point" **1.930 to 1.990 gHz**

(6) Range of Operating **Set # 300 to 553**
(7) **Power levels** **.224 to 24.5 Watts each Carrier (Software controlled.)**

Meas. For varying operating power: Measured at RF amp external antenna terminal. (Drive level changed to Power Amplifier)

(8) Maximum Power **as defined in applicable part of rules. §24.232 (a) specifies a limit of 1640 eirp Watts max. At antenna height < 300 meters. TX Peak Po cannot exceed 100 watts.**

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(8) DC Voltage applied & DC current

into the several elements of final radio frequency amplifier device	**See Exhibit C: Supply Voltage 24 Vdc current vs. power**

(9) Tune up **procedures over the power range or at a specified operating power**

Ex D omitted
No tune-up required

(10) Schematic Diagram **and a description of all circuitry and devices for determining and stabilizing frequency for suspension of radiation**

See Exhibit E (Diagram)

See Exhibit F Frequency Stability

For limiting modulation — **See Exhibit G Modulation Limit**

(11) Photo or drawing of equipment **identification plate or label showing information to be placed thereon** — See Exhibit H

M/ERGY "Access Point" (AP)

(12) Photos **8x10 of Equipment** — **See Exhibit I**

(13) For equipment employing digital modulation techniques, a detailed description of modulating systems to be used including response characteristics, frequency, phase and amplitude

RF Modulating by Digital Techniques
See Exhibit B

(14) Data Required **by FCC §:**

2.1046 RF Po output	**See Exhibit J1 (See pp6 above and Ex. C)**
2.1047 Mod. Characteristics	**J2**
2.1049 Occupied Bandwidth	**J3**
2.1051 Spurious Conducted	**J4**
2.1053 Spurious Radiated	**J5**
2.1055 Freq. Stability (see §24.235)	**J6**
IS-138-A Spurs within Rx Band	**J7**

2.1057 Freq. Spectrum to 10th harmonic 20 gHz

(15) External RF Amplifier — **Not applicable**

(16) AM Broadcast Stereo **Not applicable**

(17) Single Application **Not applicable: many identical units will be manufactured and sold.**

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§2.1041 Measurement Procedures **See Exhibit K**

Misc. Items:

Equipment Used	**See Exhibit L**
Anti-Drug Statement	**See Exhibit M**
Option Two (2) Carriers	**See Exhibit N**
Option Outdoors Cabinet	**See Exhibit O**
RF Exposure	See Exhibit P
Letter of Authorization	See Exhibit Q
Letter of Compliance	See Exhibit R
Letter Requesting Confidentiality	See Attachment #1