

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)**
For limiting modulation **See Exhibit F Frequency Stability**
 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
units will**

**Not applicable: many identical
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

Com Dev Ex. I AP