

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** See Exhibit E (Diagram)
description of all circuitry and devices for determining and stabilizing frequency for suspension of radiation See Exhibit F Frequency Stability
For limiting modulation See Exhibit G Modulation Limit
- (11) **Photo or drawing of equipment** See Exhibit H
identification plate or label showing information to be placed thereon M/ERGY "Access Point" (AP)
- (12) **Photos 8x10 of Equipment** See Exhibit I
- (13) **For equipment employing digital modulation techniques,** RF Modulating by Digital Techniques
a detailed description of modulating systems to be used including response characteristics, frequency, phase and amplitude 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