

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:                | <b>FRN #0005-0583-00</b><br><b>COM DEV Broadband</b><br><b>805 Aerovista Place, Suite 101</b><br><b>San Luis Obispo, CA 93401</b><br><b>Voice: (805) 544-1089</b><br><b>Fax: (805) 544-2055</b><br><b>Josh Lober, V. P. Engineering</b><br><b>e-mail: FCC Consultant:</b><br><a href="mailto:norwoodpatterson@msn.com">norwoodpatterson@msn.com</a><br><b>Voice: (805) 528-1996</b><br><b>Fax: (805) 528-1982</b> |
| (2) | FCC Identifier                           | <b>JJA-90010000XX</b>   |
| (3) | Copy of Operation Manual                 | <b>See Exhibit A</b>  |
| (4) | Type of Emissions                        | <b>Spread Spectrum Ex. B</b>  |
| (5) | Frequency Range<br>M/ERGY "Access Point" | <b>1.930 to 1.990 GHz</b>   |
| (6) | Range of Operating                       | <b>Set # 300 to 553</b>   |
| (7) | Power levels                             | <b>.224 to 24.5 Watts each Carrier</b><br><b>(Software controlled.)</b>   |

- 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 10<sup>th</sup> 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