Form 442

Pivotal Commware
Application for Conventional Experimental Authority
For 3550 – 3700 MHz Band

Attachment 1

Narrative Statement

Pivotal Commware (Pivotal) is developing Holographic Beam Forming (HBF) antenna technology that will improve the capacity, coverage and throughput of wireless networks.

Pivotal seeks a conventional experimental authorization to undertake testing, perform demonstrations, and undertake limited market trials of its HBF technology in the following band:

- **3550 – 3700 MHz (CBRS band)**

Pivotal plans to undertake such operations at various fixed locations around the United States.

The technical details of the operations are set forth below.

Transmit equipment to be used, including name of manufacturer, model and number of units.

Pivotal Commware Model Pivot MB HBF-1, 20 units.

Maximum effective radiated power (ERP) or equivalent isotropically radiated power (EIRP).

Maximum (peak) EIRP will be 38 dBm (30 dBW), or 6.3 Watts, which translates to ERP of +35.85 dBm (5.85 dBW), or 3.85 Watts. Maximum transmitter output power will be 23 dBm (-7 dBW), or 0.2 Watts.

Emission designators (see §2.201 of this chapter) or describe emission (bandwidth, modulation, etc.)

9M04G7D
9M04W7D
18M0G7D
18M0W7D

Additional Information

Frequency tolerance: 0.001%
Width of transmit beam in degrees at half-power point: 23 degrees in azimuth and 23 degrees in elevation for broadside scan; 23 degrees in azimuth and 23 degrees in elevation for scan 60 degrees.
Width of receive beam in degrees at half-power point: same as transmit
Antenna gain (maximum): 15 dBi.

Polarization: Linear

Stop buzzer POC

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