Detailed Product Information

The Airespace radio is an IEEE 802.11 B Access point (AP) intended to be professionally installed and configured in corporate and industrial environments.

The device utilizes a mini PCI module manufactured by an outside vendor. At the time of this certification the module had not received FCC approval as a module. For this reason that Airespace is pursuing its own certification.

). The AP essentially includes only a single 2.4GHz patch antenna. There are actually two internal 2.4 GHz antennas. The AP switches rapidly between them and when a signal is detected, the VAP uses the antenna offering the best connection. At any one time, there is only one antenna connected to the module.

Additionally, the VAP includes two integral 5 GHz patch antennas pointing 180^{o} from each other to create a somewhat omni directional 5GHz pattern. The 5 GHz antennas are built into the unit to allow the unit to be upgraded to an 802.11 A/B access point. (***See Upgrade Process letter included in this application)***

The effective gain of the 2.4 GHz antenna path (the antenna switch and the antenna itself) is 6.8dBi. The diagrams below outline the RF path from the output of the mini PCI module within the VAP to the integral antennas within the AP .See the antenna patterns included with this application

There is a provision for attaching external antennas to the AP. Refer to the addendum in this report that addresses external antennas. The results contained in this report refer only to the use of the internal antennas.