Detailed Product Information / Operational Description

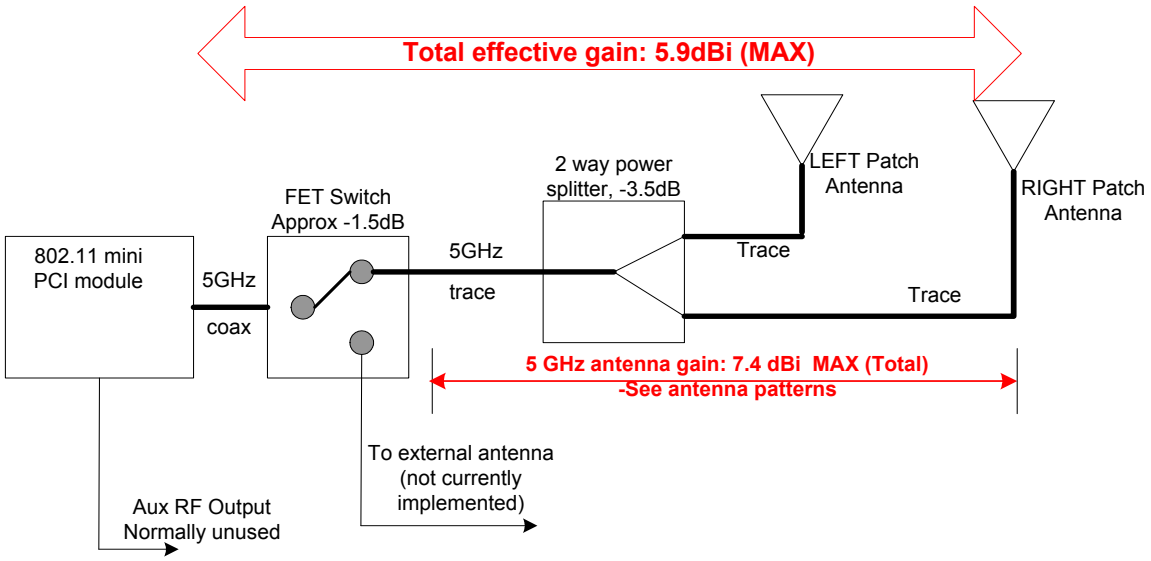
The Airespace radio is an IEEE 802.11 A access point (AP) intended to be professionally installed and configured in corporate and industrial environments.

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, Airespace is pursuing its own certification.

The VAP utilizes integral antennas for the 802.11 A bands. The VAP includes two integral 5 GHz patch antennas pointing 180° from each other to create a somewhat omni directional 5GHz pattern. The effective gain of the 5 GHz antenna path (the antenna switch and the antenna itself) is 5.9dBi. 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.

There is a provision for attaching external antennas to the VAP (which, when implemented will disable the integral antenna by means of the switch) however at this time, since external antennas are not included in this certification application, the ability to utilize an external antenna, and even switch the antenna selection switch to the other position will be disabled in the configuration software. The hardware was put in place to support the future use of external antennas once such use is authorized either by permissive change of new grant.

The VAP is powered either by an external 48V power supply or via power over Ethernet.



RF Path Schematics