

Product Details

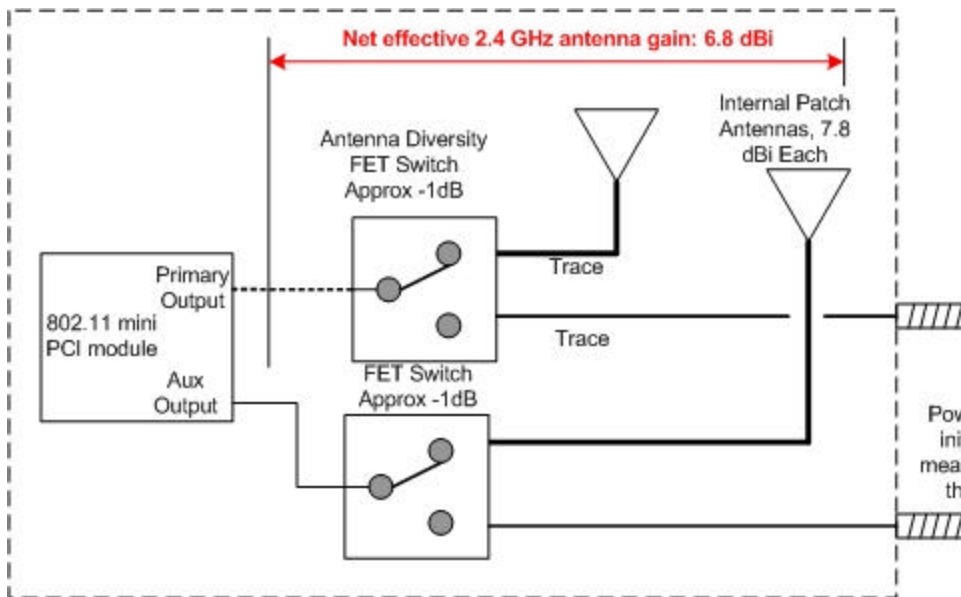
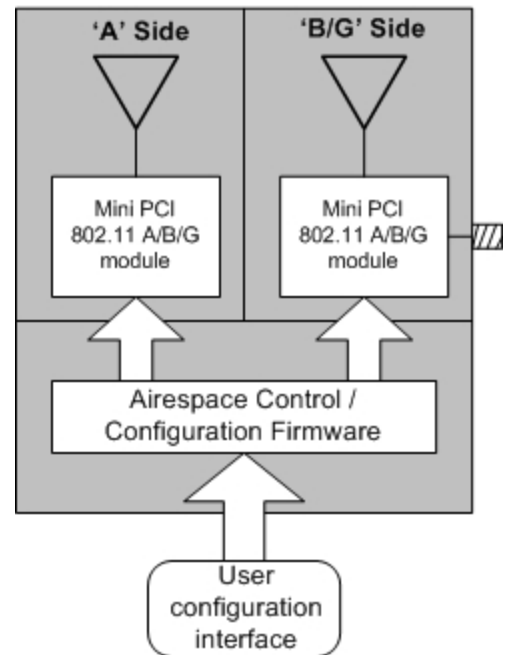
The Airespace access point radio utilizes two IEEE802.11 A/B/G mini PCI modules installed into mini PCI slots on a main board. There are two of these slots. One of the slots is associated with 802.11 A operation and the other is associated with 802.11 B/G operation. Though each module is 802.11 A/B/G capable, the actual function of the module is determined by the slot in which it is installed.

The mini PCI modules used by Airespace have received FCC modular approval as an IEEE802.11 A/B/G device (FCC ID: MCLJ07H06903).

The 802.11 modules are configured and controlled by the Airespace firmware within the access point. The user does not have access to the configuration of the module itself.

The access point has integral 802.11 A and 802.11 B antennas. There also is an option of utilizing external 802.11 B/G antennas. A block diagram of the 802.11 B/G antennas is below. The module switches rapidly between the two internal antennas and then quickly selects the antenna offering the best transmissions characteristics (S/N ratio, packet error rate, etc) thus, only one antenna is transmitting or receiving at any given point in time.

Access Point Radio



The effective gain of the 2.4 GHz internal antenna path (the antenna switch and the antenna itself) is 6.8dBi. The diagram outlines the RF path from the output of the mini PCI module within the AP to the integral antennas within the AP.