

The 2106 802.11a device automatically discontinues transmission in case of either absence of information to transmit or operational failure.

- 1) The radio adheres to the 802.11a MAC specification, and does not transmit in the absence of data to be sent.
- 2) The actual transmission of function of the device requires active operation of two independently controlled functions on the access point. If either of these two parts lose controller input the unit will not transmit. Transmission requires the active encoding of digital information into the OFDM modulation envelope by the baseband processor. This function is in the Atheros MAC chip and requires continued input of control and data information to continue to operate. Transmission also requires that the RF output be actively enabled to apply power to the output amplifier and bias of the RF switching network. These functions are performed by the Atheros RF analog chip. There are no known single failure mechanism where the unit will begin or sustain inadvertent transmission.

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