

Technical Description

The Proxim 8460 is a high performance 802.11a/b/g WLAN client product intended for laptop applications. It operates in the 2.4 – 2.4835 GHz, 5.15 - 5.35 GHz and 5.275 - 5.850 GHz bands

with a maximum average Tx output power of 158 mW. The product uses two symmetric integral

antennas for diversity operation. Each has approximately 2.6 dBi peak gain.

The Proxim 8460 design is based on an Atheros AR5001X two chip solution. The three chips include:

AR5211: Multiprotocol MAC/baseband processor, and CardBus/PCI bus interface.

AR5111 Radio-on-a-Chip (RoC): An all-CMOS single-chip radio transceiver that includes a power

amplifier, and integrated dual conversion filters to convert signals from 5 GHz to the baseband range for

use by the AR5211. The AR5111 offers fully integrated transmitter, receiver, and frequency synthesizer

functions; eliminating the need for external voltage controlled oscillators (VCOs) and surface acoustic

wave (SAW) filters.

AR2111 Radio-on-a-Chip (RoC): An all-CMOS single-chip radio transceiver that, when combined with

the AR5111, implements a 2.4 GHz 802.11 b/g solution. The AR2111 offers fully integrated

transmitter, receiver, and frequency synthesizer functions. Like the AR5111, the AR2111 does not require

external VCOs or SAW filters.