



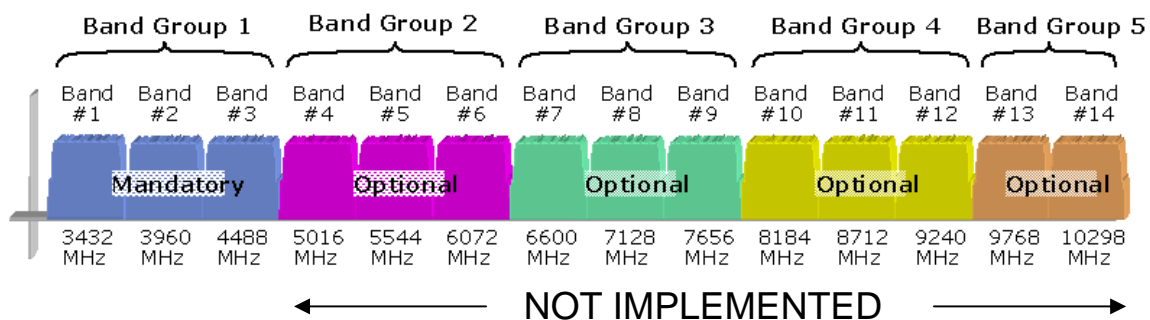
DV9100 Development Kit  
June 2005

THEORY OF OPERATION  
MB-OFDM COMPLIANCE  
FCC COMPLIANCE

## DV9100 WISAIR MB-OFDM DEVELOPMENT KIT

The DV9100 Development Kit is intended for use in the evaluation and development of UWB systems and products based on the Wisair 530 and 501 chips and technologies based on the WiMedia MB-OFDM standard. The Wisair 501 is the MB-OFDM RF chip while 530 provides the baseband functionality.

DV9100 implements only the mandatory lower three bands of the standard with the center frequencies as depicted below.



Each band is 528 MHz in bandwidth and composed of 128 OFDM tones. Each OFDM tone is 4.125 MHz in bandwidth and is QPSK modulated.

Since the data input and output is based on 10BaseT Ethernet port, the total data rate is limited to 100Mbps total for uplink and downlink.

The DV9100 is a development system and is designed to provide flexibility for the developers. End products developed using DV9100 will have significantly smaller board space or footprint to meet stringent product requirements by various mobile and consumer electronics manufacturers.

DV9100 is also designed to meet the appropriate FCC part 15 rules and regulations.