Wireless USB Module Theory of Operation

Rev 1

1 Introduction

This document describes how the system operates as a UWB (Ultra-wideband) device.

2 System Operation

2.1 General Description

Wireless USB Module is a UWB module. It can be used in various UWB applications, such as 4-port HWA and WUSB docking station.

2.2 Operation

A UWB module can operate in both BG1 and BG3. Only one of the band groups will be operating at a given time and this is determined by the MAC-PHY chip. It searches for WiMedia standard-compliant UWB hosts that have associated relationship with it. Once such a host is found, the communication link will be set up and the USB device, e.g. a flash drive attached to the UWB module, can be accessed by the host (computer).