



## HT205 Wireless Module

### -Theory of Operation

The HT205 is a complete high-performance wireless home theatre audio solution, capable of transmitting Low Frequency Effects (LFE) to a wireless subwoofer across a robust 2.4 GHz radio frequency link. The HT205 Wireless Hi-Fidelity Audio Module is a highly-integrated module package utilizing the revolutionary XInC2 wireless processor. The proprietary adaptive frequency hopping protocol uses a narrow footprint in the 2.4 GHz band allowing seamless co-existence with other devices and offering unparalleled quality of service. A module typically requires two well filtered power supply rails for operation; a digital power rail to supply the XInC2 processor, and an RF power rail to supply the 2.4 GHz radio. The HT205 audio module accepts, and outputs, digital audio information in I2S format. Interfacing to the module is possible through standard two-wire I2C protocol, or through the built in XInC Programming Debug (XPD) port using XInC2's Serial Peripheral Interface (SPI). The audio module comes pre-programmed with a standard software feature set that is built into the HT Standard Application Firmware, which includes bi-directional data control channels, low-power sleep modes, remote volume, mute control and automatic RF Mating.