

Wireless Dolby® Headphone System

FreeSystems Wireless Dolby® Headphone System

allows you to enjoy high-quality Dolby Digital 5.1 Channel DVDs, without disturbing your family members while at the same time experience the pleasures of high fidelity and true digital wireless audio transmission in your personal space.

Powered by **Freespan™** RF Wireless Digital Audio Technology and advanced DSP decoder, the system is able to provide a realistic, true-to-life, 5.1 channel surround sound experience.

General Description

The Wireless Dolby® Headphone System is designed to transmit both uncompressed CD quality stereo audio and Dolby® headphone surround sound. This high performance system can support multiple wireless headphones that are integrated with **FS2207** module.

By leveraging on FreeSystems existing hardware and DSP firmware, this off-the-shelf product will help CE manufacturers to realize their wireless audio products or applications rapidly, without the need to understand RF or develop any embedded firmware.



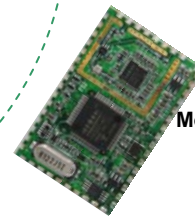
Dolby Digital Decoder Board with DSP and MCU

I²S



FS2207 Transmitter Module

2.4GHz
Uncompressed
digital
audio



FS2207 Receiver Module embedded into Headphone

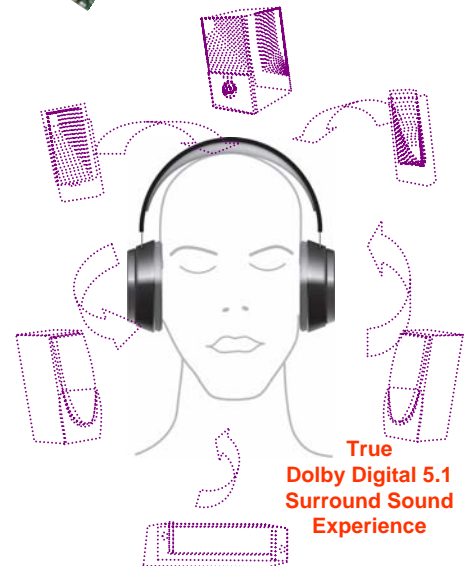
Features

- Delivers realistic 5.1-channel surround sound over any wireless headphones integrated with **Freespan™** technology.
- Decode **Dolby AC3/ Pro Logic II / DTS / AAC**
- Multiple input sources (Analog and 2X SPDIF)
- Analog level input (1 or 2Vrms)
- Coexist with other 2.4Ghz devices
- Long battery life for Headphone receiver (>15hrs with 2 AA batteries)
- 8 Selectable RF channels
- Auto power off sequence
- Broadcast mode – support multiple wireless headphones

FreeSystems Advantages

FreeSystems has vast experience in developing RF and Baseband ICs as well as designing full wireless audio systems. With the know how in RF technologies, Digital Signal Processing and audio processing algorithms, FreeSystems has developed a unique set of core competencies in

- RF, Antenna design and EMI Optimization
- System Architecture and Design
- Signal Processing
- Design for Manufacturing



Dolby and Pro Logic II are registered trademarks of Dolby Laboratories.

About FreeSystems

FreeSystems Pte Ltd was incorporated in June 1999. The company provides both Infra Red and RF wireless digital audio solutions. FreeSystems has strong IP portfolio of more than 48 patents either filed, issued or pending worldwide. Over the years, FreeSystems has also demonstrated the capability and capacity to support major CE customers and technology partners in rapid product realization.

Wireless • Uncompressed • Pure Digital Audio

FREESPAN™
pure digital transmission

www.freesystems.com.sg