ABSTRACT

A UWB-based low-delay lossless digital audio transmission unit, including an audio input module, an audio processing module, a radio frequency transceiving module and a UWB processing module. The audio processing module is in signal connection with the audio input module and receives a first digital audio signal from the audio input module and transmits the first digital audio signal to the UWB processing module. The UWB processing module is connected with the audio processing module and the radio frequency transceiving module. The radio frequency transceiving module is connected with another digital audio transmission unit to send it the first digital audio signal processed by the UWB processing module and to receive a second digital audio signalfrom the another digital audio transmission unit. A system and an electronic device having the UWB-based low-delay lossless digital audio transmission unit are also provided.