



Dolby Virtual Speaker / Dolby Headphone Decoder

■ General Description

The NJU26220 simulates a highly realistic 5.1-speaker surround sound listening environment from as few as two speakers or headphone by Dolby® Virtual Speaker/Dolby® Headphone technology.

The NJU26220 processes the Dolby® Virtual Speaker and Dolby® Headphone technology that combined with Pro Logic II processing. It includes Pro Logic II decoder. Moreover, multi-channel signal inputs from an external decoder are possible.

It is suitable for digital TVs, stereo mini-components, PCs, and any audio/visual products.

■ Package



NJU26220FR3

■ Features

-Software

- Dolby® Virtual Speaker
- Dolby® Headphone
- Dolby® Pro Logic II® (Max 5.1ch Output)
- Multi-channel signals input (Max 5.1ch Input)
- Monitor output
- Lip-Sync Delay function (Digital Audio Delay)

-Hardware

- 24bit Fixed-point Digital Signal Processing
- Maximum Clock Frequency : 12.288MHz(Standard), built-in PLL Circuit
- Digital Audio Interface : 4 Input ports / 4 Output ports
- Digital Audio Format : I²S 24bit, left-justified, right-justified, BCK : 32fs/64fs
- Master / Slave Mode
 - In Master mode, MCK : 256fs @fs=48kHz / 384fs @fs=32kHz
- Microcomputer Interface
 - I²C Bus (Standard-mode/100kbps, Fast-mode/400kbps)
 - 4 -Wire Serial Bus (4-Wire: Clock, Enable, Input data, Output data)
- Operating Voltage : V_{DD} = V_{DDPLL} = 1.8V
: V_{DDIO} = 3.3V
- Input Terminal : 5.0V Input tolerant
- Package : LQFP48-R3 (Pb-Free)

* The detail hardware specification of the NJU26220 is described in the “NJU26200 Series Hardware Data Sheet”.