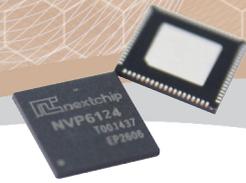


4-Ch AHD2.0 RX and 9-Ch Audio Codec NVP6124



NVP6124 includes 4-Channel AHD2.0 RX and 9-Channel Audio Codec. AHD2.0 RX delivers finest FHD/HD images. It accepts separate 4 CVBS/COMET/AHD1.0/AHD2.0 inputs from cameras and other video signal sources. It digitizes and decodes NTSC/PAL/COMET/AHD1.0/AHD2.0 video signal into digital video signal which represents 8-bit BT.656/BT.1120(like) 4:2:2 byte interleave format with 54/72/74.25/108/144/148.5MHz multiplexed. Especially, It is able to use coaxial cable for COMET(SD level), AHD1.0 (HD level) and AHD2.0(Full HD level), and they provide the superior image quality by minimizing the interference when separating

Y and C. 9-Channel Audio Codec include 8-Channel Voice/1-Channel Mic PCM Codec which handles voice band signals(300Hz~3400Hz) with 8bit/16bit linear PCM, 8bit G.711(μ -law, α -law) PCM. Built-in audio controller can generate digital outputs for recording/mixing and accepts digital input for playback. 4-Channel Coaxial Communication Protocol communicates between controller(DVR) and camera on the video signal through coaxial cable.

Features

- 4-Ch AHD2.0 RX which accepts
- 4-CVBS/COMET/AHD1.0/AHD2.0
- On Chip Analog CLAMP/PGA, Anti-aliasing Filter and Equalizer Filter
- Accepts NTSC-M/J/4.43, PAL-B/D/G/H /I/K/L/M/N/60, COMET, 720P @25p/30p 720P @50p/60p, 1080P @25p/30p
- Robust Sync detection for weak and non-standard signals
- High-performance adaptive comb filter and Notch Filter
- On-Chip 9-Ch PCM audio codec
- Cascade mode up to 16-Ch
- Motion detection (32×24)
- Compact package
- Low power consumption
- Coaxial protocol
- Auto Detection for CVBS & COMET
- Auto Detection for video standard

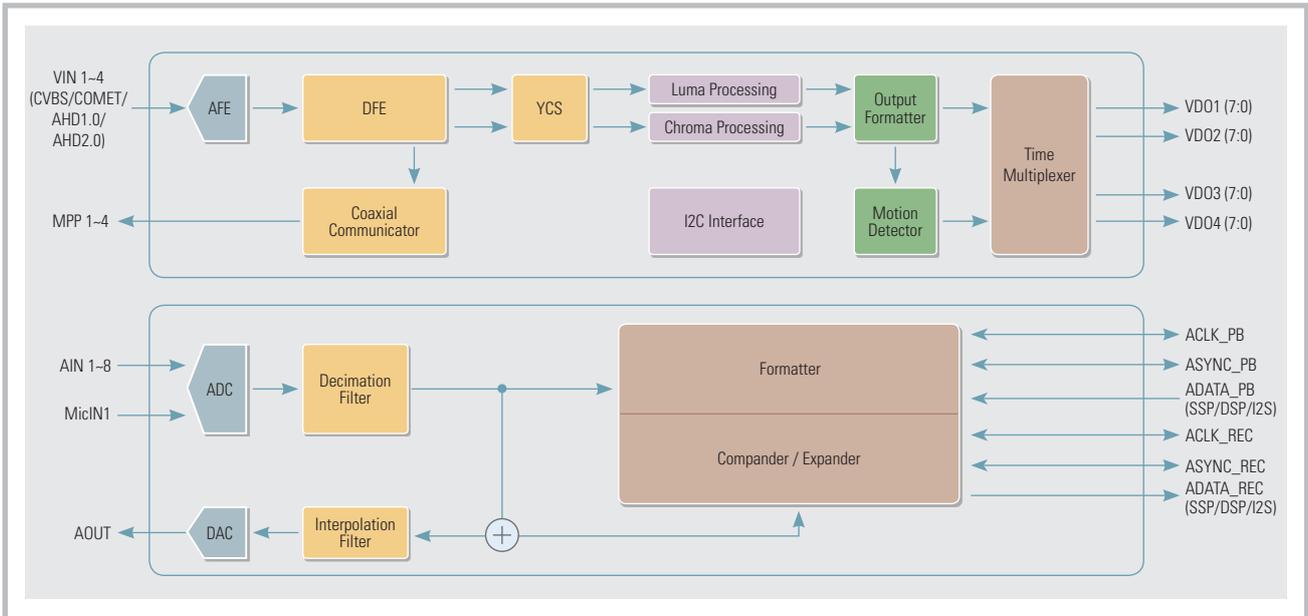
Specifications

Input I/F	<ul style="list-style-type: none"> • Video : 4-Ch Analog CVBS/COMET/AHD1.0/AHD2.0 • Audio : 9-Ch Analog audio (1-Ch for Mic) 1-Ch Digital audio (for PB)
Output I/F	<ul style="list-style-type: none"> • Video : 4-Ch Digital 8bit ITU-R BT.656 BT.1120(like) 4:2:2 Format (54M/72M/74.25M/108M/144M/148.5M) • Audio : 1-Ch Analog audio (live/mix/PB) 2-Ch Digital audio (record/MIC) I2S/SSP/DSP interface (master/slave)
Etc	<ul style="list-style-type: none"> • Motion detection (32×24 resolution) • Support coaxial protocol for all video standards • I2C interface • Operation voltage : 3.3V , 1.2V • Package(128-eTQFP, 14mm×14mm 0.4p)

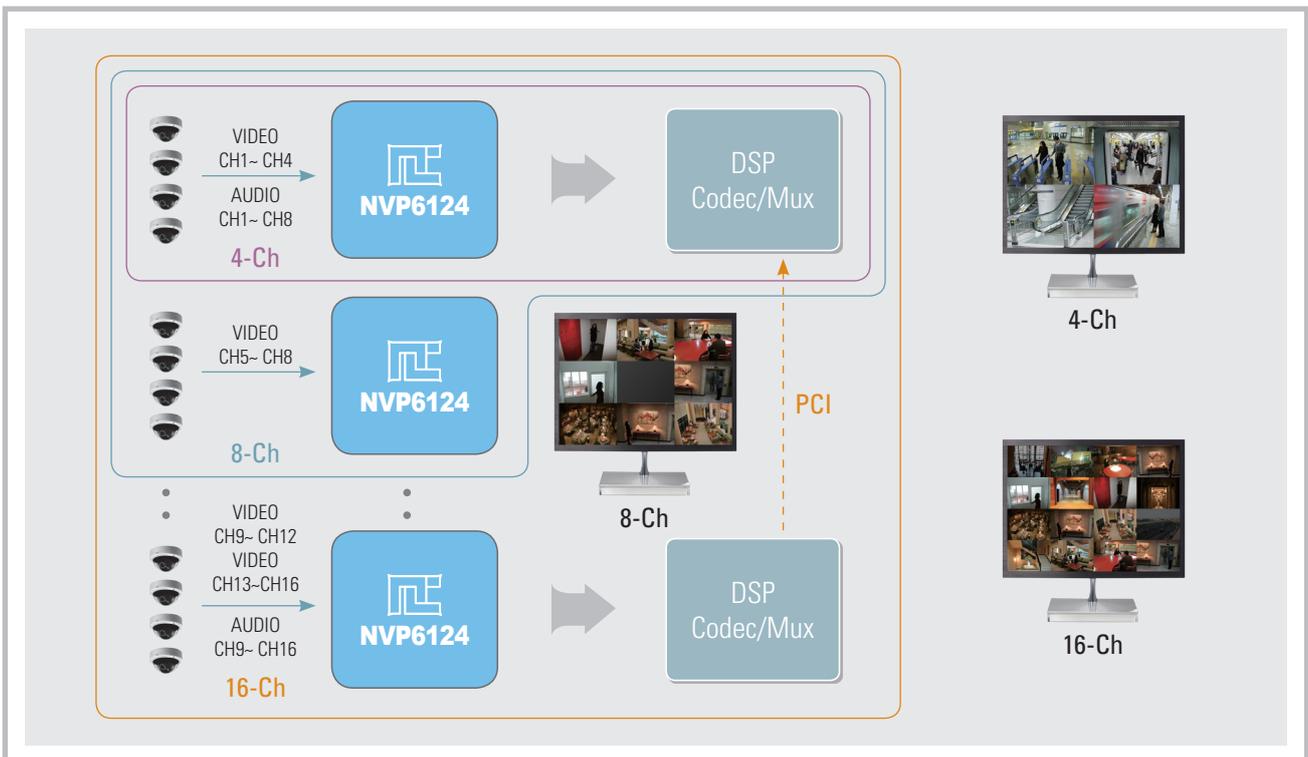


Application Diagram

NVP6124 Block Diagram



NVP6124 Application 4-Ch / 8-Ch / 16-Ch



■ The compact size ONVP6124 will minimize your DVR system size which will eventually meet the customers' needs.