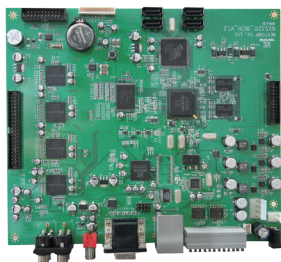
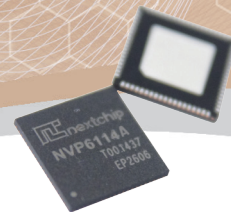


4-CH AHD1.0 RX and 9-Ch Audio Codec NVP6114A



NVP6114A includes 4-Channel AHD1.0 RX and 9-Channel Audio Codec. AHD1.0 RX delivers finest HD images. It accepts separate 4 CVBS/COMET/AHD1.0 inputs from cameras and other video signal sources. It digitizes and decodes NTSC/PAL/COMET/AHD1.0 video signal into digital video signal which represents 8-bit BT.656 4:2:2 byte interleave format with 54/72/108/144MHz multiplexed. Especially, it is able to use the coaxial cable for COMET(SD level), AHD1.0 (HD level), and they provide the superior image quality by minimizing the interference when separating Y and C. 9-Channel Audio Codec includes 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 and 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 AHD1.0 RX which accepts 4-CVBS/COMET/AHD1.0
- 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
- 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 standards

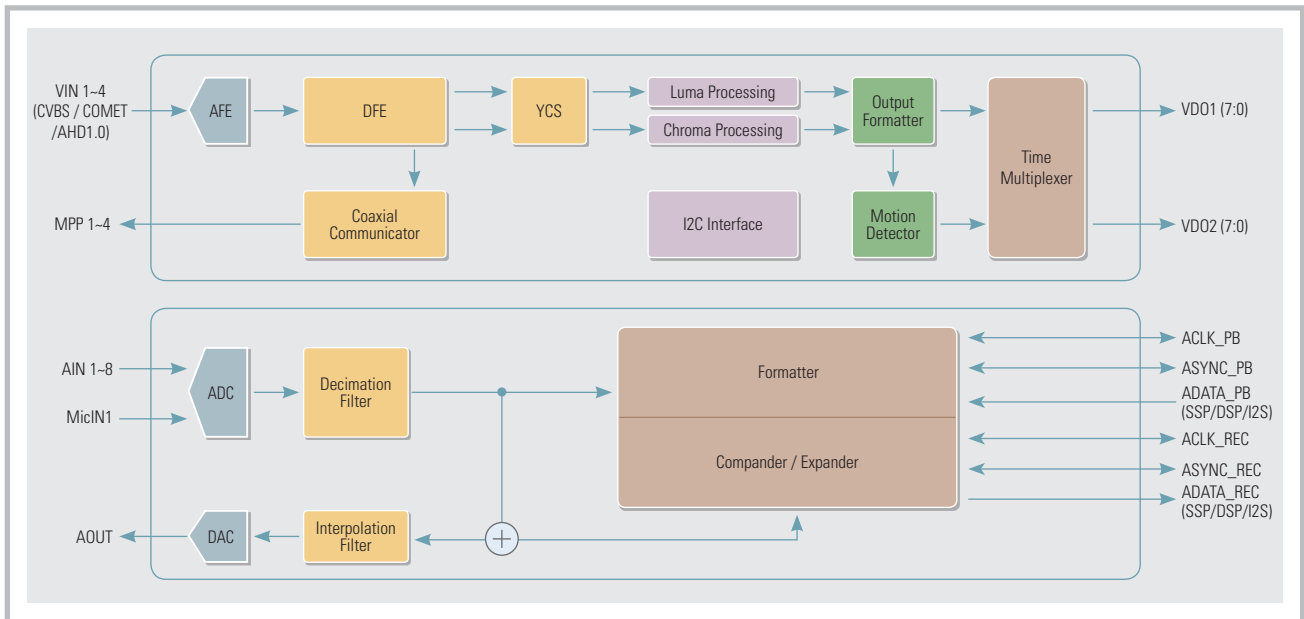
Specifications

Input I/F	<ul style="list-style-type: none"> • Video : 4-Ch Analog CVBS/COMET/AHD1.0 • 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 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(76-eQFN, 9mm×9mm 0.4p) • Support NVP1918C/NVP1914C/NVP6114 P2P

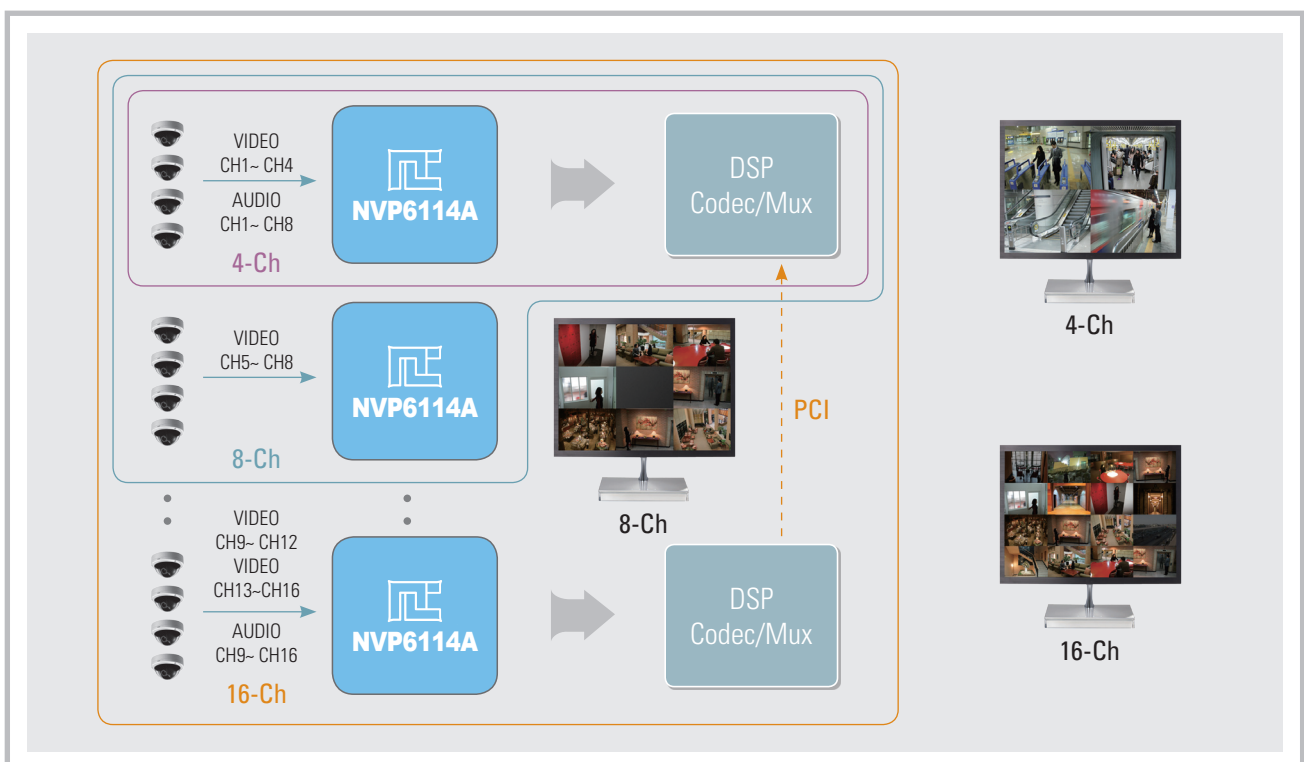


Application Diagram

NVP6114A Block Diagram



NVP6114A Application 4-Ch / 8-Ch / 16-Ch



- The compact size NVP6114A will minimize your DVR system size which will eventually meet the customers' needs.