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With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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4-CH WD1 (960H)/D1 Compatible Video Decoder and Audio Codec

TW2974

Features

Video Decoder

- WD1 (960H) and D1 compatible video decoding operation and each channel is programmable
- NTSC (M, 4.43) and PAL (B, D, G, H, I, M, N, N combination), PAL (60) support with automatic format detection
- Built-in analog anti-alias filter
- Four 10-bit ADCs and analog clamping circuit for CVBS input
- Fully programmable static gain or automatic gain control for the Y channel
- Programmable white peak control for CVBS channel
- 4-H adaptive comb filter Y/C separation
- PAL delay line for color phase error correction
- Image enhancement with peaking and CTI
- Digital sub-carrier PLL for accurate color decoding
- Digital Horizontal PLL for synchronization processing and pixel sampling
- Advanced synchronization processing and sync detection for handling non-standard and weak signal
- Programmable hue, brightness, saturation, contrast, sharpness
- Automatic color control and color killer
- ITU-R 656 like YCbCr (4:2:2) output or time multiplexed output with 36/72/144MHz for WD1 or 27/54/108MHz for D1 format

Audio Codec

- Integrated five audio ADCs processing and one audio DAC
- Provides multi-channel audio mixed analog output
- Supports I2S/DSP Master/Slave interface for record output and playback input
- PCM 8/16-bit and u-Law/A-Law 8-bit for audio word length
- Programmable audio sample rate that covers popular frequencies of 8/16/32/44.1/48kHz

Miscellaneous

- Embedded PTZ Tx pulse generation
- Two-wire MPU serial bus interface
- Integrated clock PLL for 144/108MHz clock output
- Power save and Power down mode
- Low power consumption
- Single 27MHz crystal for all standards and both WD1 and D1 format
- 3.3V tolerant I/O
- 1.0V/3.3V power supply
- 128-pin LQFP package (pin compatible with TW2964 128-LQFP version)

TW2974

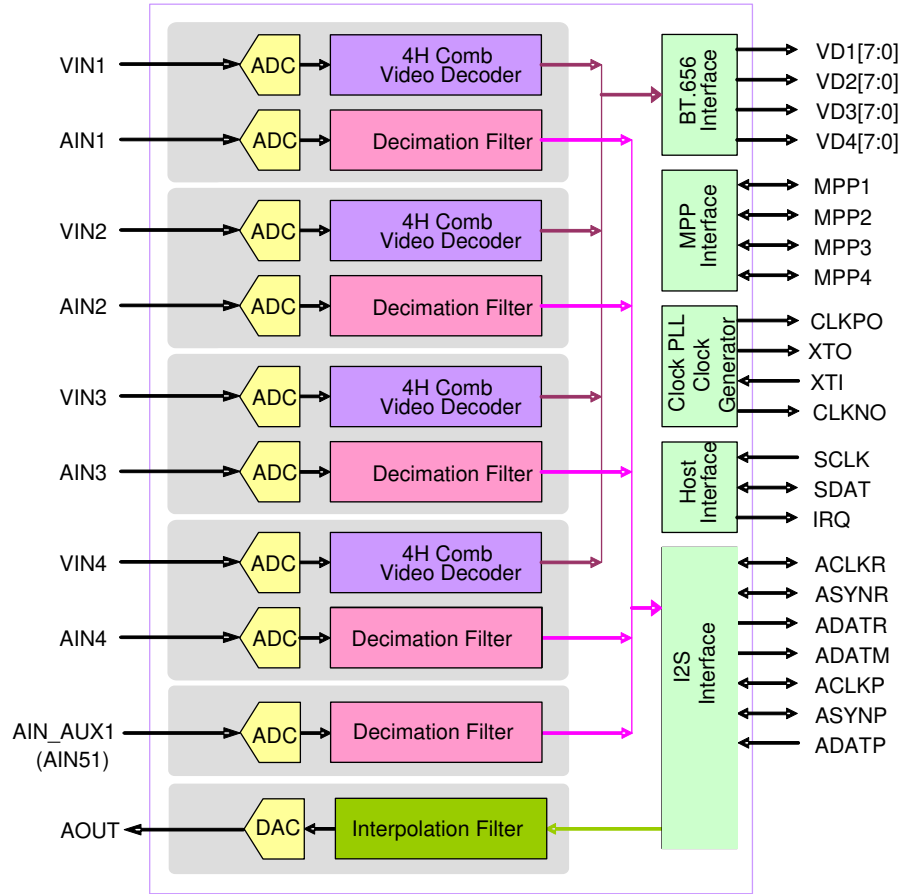


FIGURE 1. TW2974 VIDEO BLOCK DIAGRAM

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