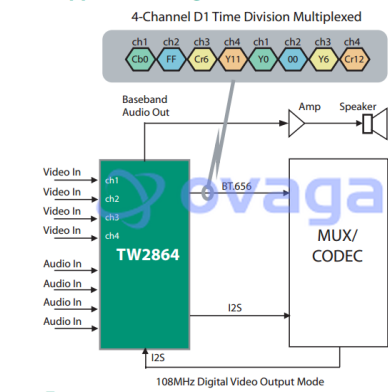


TW2864A-LD1-CR 4 Channel Video Decoders & Audio Codec for Se HT SUSA
 CODE:8542390000

Manufacturers	Renesas Technology Corp
Package/Case	LQFP100
Product Type	Integrated Circuits (ICs)
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for TW2864A-LD1-CR or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The TW2864 is Techwells 4th generation 4-in-1 video decoder and audio codec for security surveillance applications. The device includes four high quality NTSC/PAL video decoders that convert analog composite video signal to digital component YCbCr data. The TW2864 contains four 10-bit ADCs and proprietary clamp and gain controllers and utilizes adaptive 4H comb filter for separating luminance & chrominance to reduce cross noise artifacts. The TW2864 adopts the image enhancement techniques such as IF compensation filter, CTI and programmable peaking. The TW2864 also includes audio codec which has four audio ADCs and one audio DAC. A built-in audio controller can generate digital outputs for recording/mixing and accepts digital input for playback.

Features

Improved adaptive 4H comb filters for all NTSC/PAL standards

Supports ITU-R BT.656 format or time multiplexed output with 54MHz or 108MHz

Provides simultaneous 4-channel Full D1 or CIF time-multiplexed outputs

PCM 8/16-bit and u-Law/A-Law 8-bit for audio word length

Programmable audio sample rates: 8, 16, 32, 44.1 and 48kHz Video Decoder

Accepts all NTSC(M/N/4.43) / PAL(B/D/G/H/I/K/L/M/N/60) standards with auto detection

Integrated four video analog anti-alias filters and 10 bit CMOS ADCs

IF compensation filter for improvement of color demodulation

Color Transient Improvement (CTI)

Automatic white peak control

Programmable hue, saturation, contrast, brightness and sharpness

Proprietary fast video locking system for non-realtime application

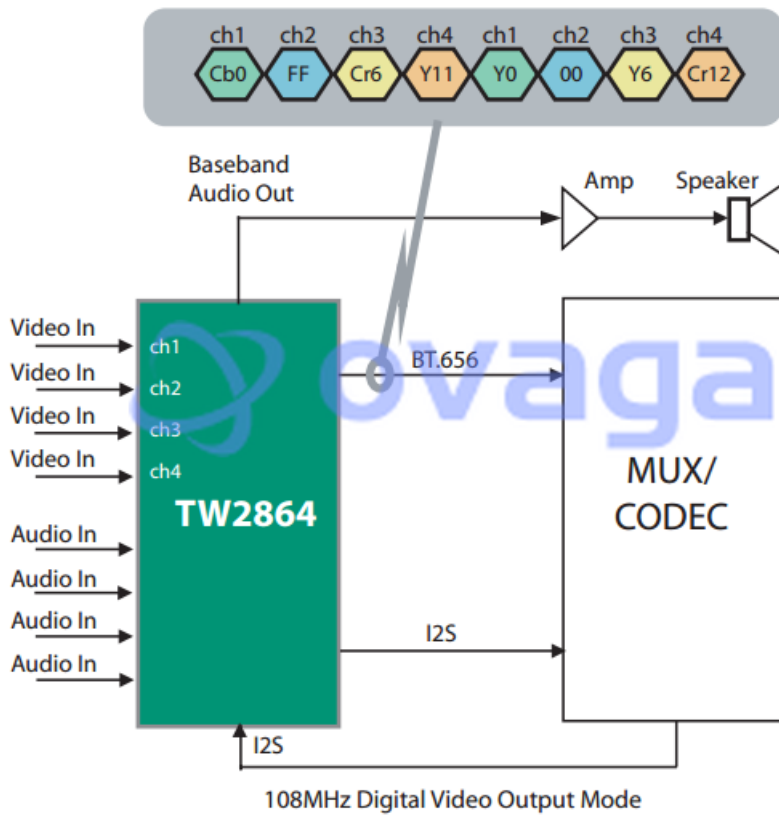
Field lock mode Audio Codec

Integrated four audio ADCs and one audio DAC

Provides multi-channel audio mixed analog output

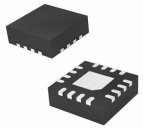
Supports a standard I2S interface for record output and playback input

4-Channel D1 Time Division Multiplexed



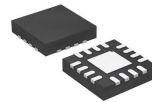
Key Features

Related Products



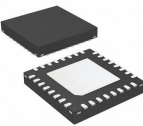
[TW9992AT-NAI-GE](#)

Renesas Technology Corp
32-VFQFN



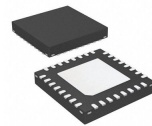
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Renesas Technology Corp
WQFN



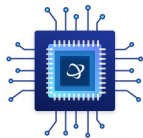
[TW9992-NAI-CE](#)

Renesas Technology Corp
32pin-QFN
32pin-WFQFN



[TW9992AT-NAI-GET](#)

Renesas Technology Corp
32pin-QFN
32pin-WFQFN



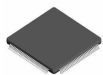
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IT-2019



[TW9912-NA3-CRT](#)

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48-QFN



[TW2964-LA2-CR](#)

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TQFP128



[TW2864B-LD1-CR](#)

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TQFP-100