

TW2868-LA2-CR, 8 Channel Video Decoder/Encoder 14x14 LQFP HT SUSA
CODE:8542390000

Manufacturers	Renesas Technology Corp
Package/Case	TQFP128
Product Type	Interface ICs
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for TW2868-LA2-CR or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The TW2868 includes eight high quality NTSC/PAL/SECAM video decoders that convert analog composite video signal to digital component YCbCr data for security applications. Each channel contains 10-bit ADC and proprietary clamp and gain controllers and utilizes 4H comb filter for separating luminance and chrominance to reduce cross noise artifacts. The TW2868 adopts image enhancement techniques, such as IF compensation filter, CTI and programmable peaking. TW2868 also includes one NTSC/PAL video encoder with two 10-bit DAC's to support CVBS and YC output. The TW2868 also includes audio CODEC, which has ten audio Analog-to-Digital converter processing and one Digital-to-Analog converter. A built-in audio controller can generate digital outputs for recording/mixing and it also accepts digital input for playback.

Features

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

Integrated eight video analog anti-aliasing filters and 10 bit CMOS ADCs

High performance adaptive 4H comb filters for all NTSC/PAL standards

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

Supports ITU-R BT.656 type time multiplexed output with 54/108MHz

Provides simultaneous 2x four channel Full D1 with 108MHz and 2x CIF with 54MHz by time-multiplexed output format

Integrated ten audio ADC 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 μ -Law/A-Law 8-bit for audio word length

Programmable audio sample rate, which covers popular frequencies of 8/16/32/44.1/48kHz

Supports two-wire serial host interface

Integrated one video encoder and two 10-bit video CMOS DACs

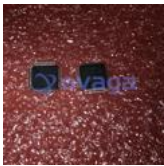
Integrated clock PLL for 108MHz clock output

Ultra low power consumption (Typical 867.36mW)

128 pin LQFP package



Related Products



[TW9910-LB2-GR](#)

Renesas Technology Corp
LQFP-44



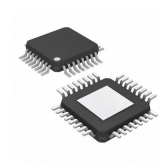
[TW9910-NB2-GR](#)

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48-QFN



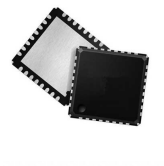
[TW2866-LC1-CR](#)

Renesas Technology Corp
QFP-128



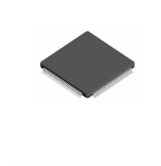
[TW9900-TA1-GR](#)

Renesas Technology Corp
QFP-32



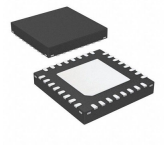
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Renesas Technology Corp
QFN32



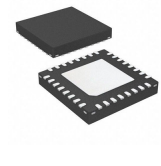
[TW2867-QLC1-CR](#)

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32pin- WFQFN