

4 Channel Video Decoder

Description

mP2809 includes 4-Channel Video Decoder.

4 Channel Video Decoder delivers high quality images. It accepts separate 4 CVBS inputs from Camera, TV, VCR and the other video signal sources. It digitizes and decodes NTSC/PAL/SECAM video signal into digital components video which represents 8-bit CCIR656 4:2:2 format with 27 MHz, 54MHz (4-Channel CIF) and 108 MHz (4-Channel time multiplexed).

- Low Power consumption.

Applications

- Video Security System.

Features

Video Decoders

- High performance adaptive 4H comb filters for all NTSC/PAL/SECAM standards.
- Integrated four video analog anti-aliasing filters and 10 bit CMOS ADCs.
- Supports the standard ITU-R BT.656 format or 4-Channel time multiplexed output with 108MHz.
- Provides 4-Channel CIF time-multiplexed outputs with 54MHz.
- On Chip Analog DC-restore/AGC.
- Supports NTSC – M/J/4.43, PAL – I/B/G/H/D/N/M/60, SECAM standards.
- Automatic white peak control and peak AGC.
- Color Transient Improvement (CTI).
- Luminance Transient Improvement (LTI).
- Programmable hue, saturation, contrast, brightness.
- Built-in 2D sharpness.
- Weak signal handling ($\leq 400\text{mV}$).

Miscellaneous

- Supports a I2C-bus serial interface.
- 3.3V , 1.8V power.
- 48-pin LQFP(7x7mm, RoHS) package.