



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

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!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



Low Power NTSC/PAL/SECAM Video Decoder with Differential CVBS Inputs

TW9990

Features

Video Decoder

- NTSC (M, 4.43) and PAL (B, D, G, H, I, M, N, N combination), PAL (60), SECAM support with automatic format detection
- Software selectable analog input control allows for combinations of single-ended CVBS, differential CVBS and S-Video
- Built-in analog anti-alias filter
- Two 10-bit ADCs and analog clamping circuit
- Fully programmable static gain or automatic gain control for the Y-channel
- Programmable white peak control for the Y-channel
- 4-H adaptive comb filter Y/C separation
- PAL delay line for color phase error correction
- Image enhancement with peaking and CTI
- Digital subcarrier 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 and sharpness
- Automatic color control and color killer
- Chroma IF compensation
- VBI slicer supporting industrial standard data services
- VBI data passthrough, raw ADC data output
- Programmable output cropping

Digital Output

- ITU-R 601 or ITU-R 656 compatible YCbCr (4:2:2) output format

Miscellaneous

- Short-to-Battery Detection test
- Short-to-Ground Detection test
- Two-wire MPU serial bus interface
- Supports real-time control interface
- Power save and power down mode
- Low power consumption
- Single 27MHz crystal for all operations
- Supports 24.54MHz and 29.5MHz crystal for high resolution square pixel format decoding
- 3.3V tolerant I/O
- 1.8V/3.3V power supply
- 32 Ld WFQFN (QFN with wettable flanks)
- AEC-Q100 qualified

TW9990

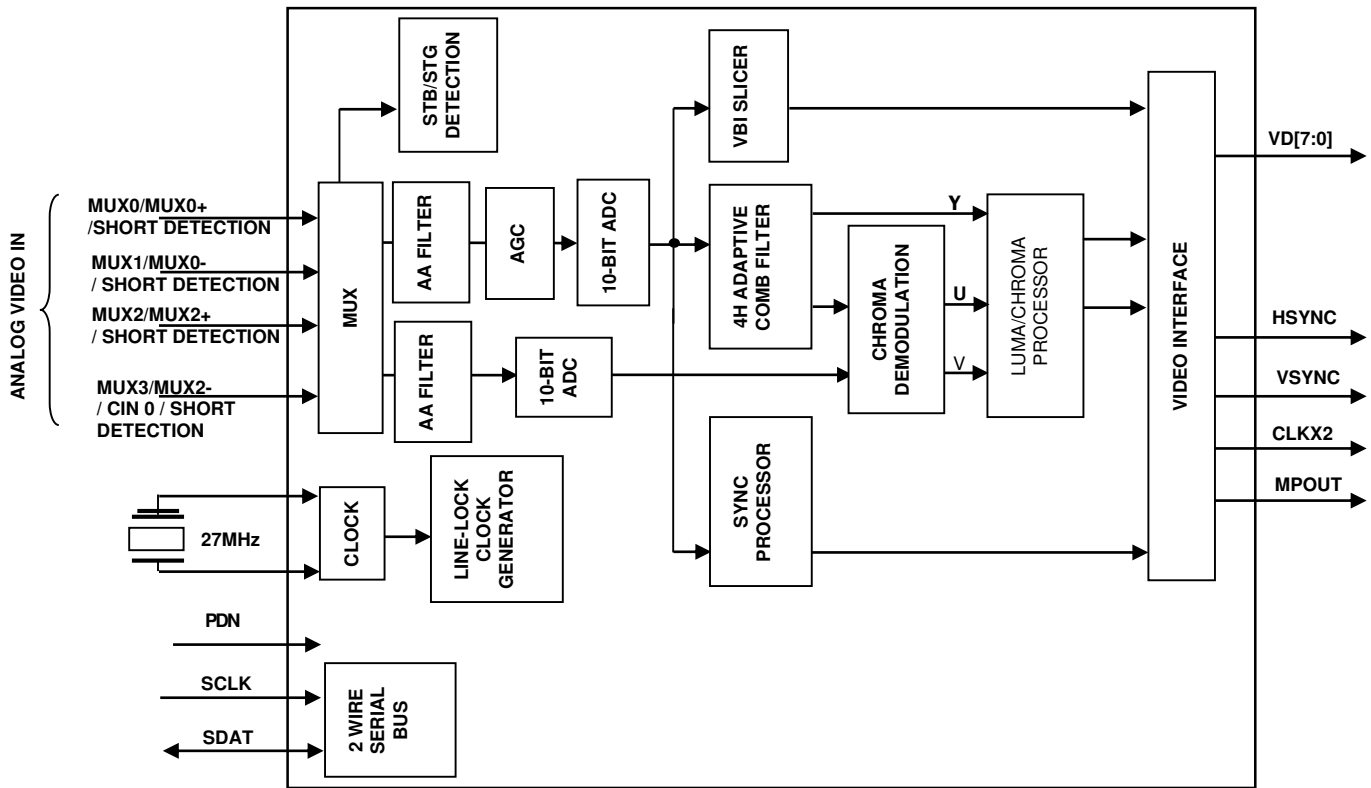


FIGURE 1. TW9990 BLOCK DIAGRAM

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