

FEATURES

- 1.8 V analog and digital core supply voltage
- Serial data link with reduced range LVDS outputs
- Correlated double sampler (CDS) with -3 dB, 0 dB, +3 dB, +6 dB gain
- 6 dB to 42 dB, 10-bit variable gain amplifier (VGA)
- 14-bit, 65 MHz analog-to-digital converter
- Black level clamp with variable level control
- Complete on-chip timing generator
- Precision Timing* core with 240 ps resolution @ 65 MHz
- On-chip 3 V horizontal and RG drivers
- 6 mm × 6 mm, 84-ball CSP_BGA package

APPLICATIONS

- Professional HDTV camcorders
- Professional, high-end digital cameras
- Broadcast cameras
- Industrial high speed cameras

GENERAL DESCRIPTION

The AD9973 is a highly integrated dual channel CCD signal processor for high speed digital video camera applications. Each channel is specified at pixel rates of up to 65 MHz, and consists of a complete analog front end with analog-to-digital conversion, combined with a programmable timing driver. The *Precision Timing* core allows adjustment of high speed clocks with 240 ps resolution at 65 MHz operation. The AD9973 also contains a reduced range LVDS interface for the dual-channel data outputs.

Each analog front end (AFE) includes black level clamping, CDS, VGA, and a 65 MSPS, 14-bit analog-to-digital converter. The timing driver provides the high speed CCD clock drivers for RG, HL, and H1 to H4. Operation is programmed using a 3-wire serial interface.

Packaged in a space-saving 6 mm × 6 mm, 84-ball CSP_BGA, the AD9973 is specified over an operating temperature range of -25°C to +85°C.

FUNCTIONAL BLOCK DIAGRAM

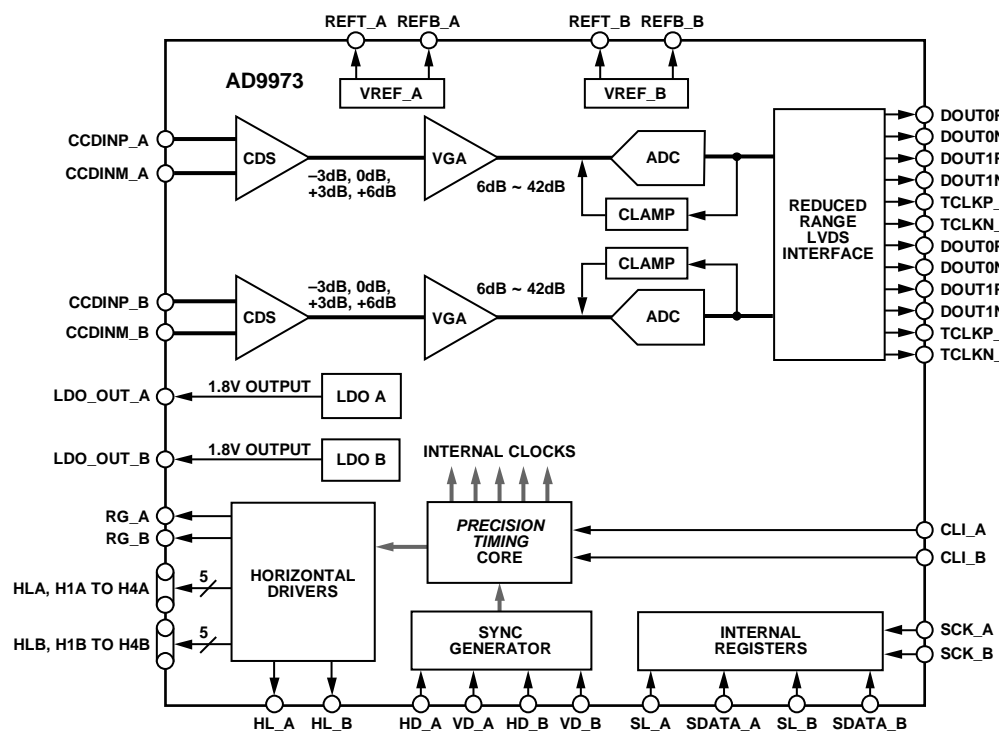


Figure 1.

For more information about the AD9973, contact Analog Devices, Inc. via email at afe.ccd@analog.com.

Rev. SpA

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One Technology Way, P.O. Box 9106, Norwood, MA 02062-9106, U.S.A.
Tel: 781.329.4700 www.analog.com
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AD9973

NOTES

AMEYA360

Components Supply Platform

Authorized Distribution Brand :



Website :

Welcome to visit www.ameya360.com

Contact Us :

➤ Address :

401 Building No.5, JiuGe Business Center, Lane 2301, Yishan Rd
Minhang District, Shanghai , China

➤ Sales :

Direct +86 (21) 6401-6692

Email amall@ameya360.com

QQ 800077892

Skype ameyasales1 ameyasales2

➤ Customer Service :

Email service@ameya360.com

➤ Partnership :

Tel +86 (21) 64016692-8333

Email mkt@ameya360.com