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Analog Devices Inc. AD9973BBCZRL

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Distributor of Analog Devices Inc.: Excellent Integrated System Limited Datasheet of AD9973BBCZRL - IC CCD SGNL PROC 14BIT 84-CSPBGA Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com



Dual-Channel, 14-Bit CCD Signal Processor with *Precision Timing*™ Core

AD9973

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

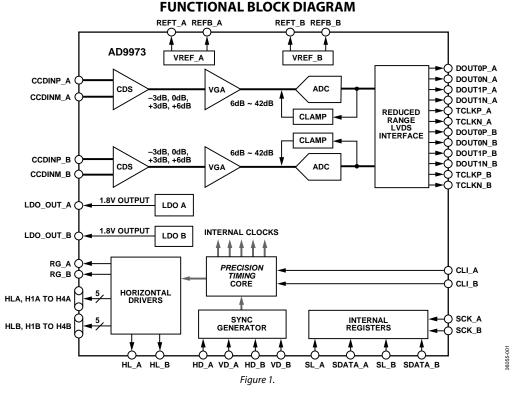
Professional HDTV camcorders Professional, high-end digital cameras Broadcast cameras Industrial high speed cameras

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 \times 6 mm, 84-ball CSP_BGA, the AD9973 is specified over an operating temperature range of -25° C to $+85^{\circ}$ C.



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

Rev. SpA

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NOTES



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