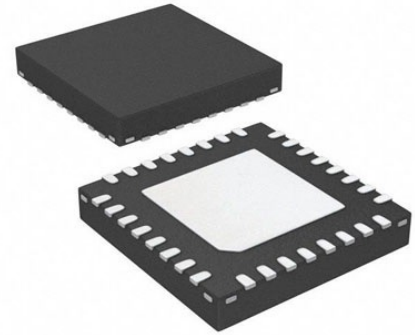


10-Bit, 4 Oversampled SDTV Video Decoder with Differential Inputs and Deinterlacer

Manufacturers	Analog Devices, Inc
Package/Case	32-WFQFN, CSP
Product Type	Audio & Video Products ; Video Decoders
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for ADV7282WBCPZ-M or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The ADV7282 converts the analog video signals into a YCrCb 4:2:2 video data stream that is compatible with the 8-bit ITU-R BT.656 interface standard.

The ADV7282-M converts the analog video signals into an 8-bit YCrCb 4:2:2 video data stream that is output over a mobile industry processor interface (MIPI®) CSI-2 interface.

The analog video inputs of the ADV7282/ADV7282-M accept single-ended, pseudo differential, and fully differential signals. The ADV7282/ADV7282-M contain a deinterlacer (12P converter) and short to battery detection capability with two STB diagnostic pins. The ADV7282 provides four analog inputs. The ADV7282-M provides six analog inputs and three general-purpose outputs.

The ADV7282/ADV7282-M are programmed via a 2-wire, serial bidirectional port (I2C compatible) and is fabricated in a 1.8 V CMOS process. The LFCSP package option makes the decoder ideal for space-constrained portable applications.

Features

Worldwide NTSC/PAL/SECAM color demodulation support

One 10-bit analog-to-digital converter (ADC), 4× oversampling per channel for CVBS, Y/C, and YPrPb modes

ADV7282: 4 analog video input channels with on-chip antialiasing filter

ADV7282-M: 6 analog video input channels with on-chip antialiasing filter

Video input support for CVBS (composite), Y/C (S-Video), and YPrPb (component)

Fully differential, pseudo differential, and single-ended CVBS video input support

NTSC/PAL/SECAM autodetection

Up to 4 V common-mode input range solution

Excellent common-mode noise rejection capabilities

5-line adaptive 2D comb filter and CTI/DNR video enhancement

Adaptive Digital Line Length Tracking (ADLLT), signal processing, and enhanced FIFO management provide mini-time base correction (TBC) functionality

See data sheet for additional features

Application

Smartphone/multimedia handsets

Automotive infotainment

DVRs for video security

Media players

Related Products



[ADV7181CBSTZ](#)

Analog Devices, Inc
LQFP-64



[AD8170AR](#)

Analog Devices, Inc
SOP8



[AD724JR](#)

Analog Devices, Inc
SOIC-16



[ADV7393BCPZ](#)

Analog Devices, Inc
LFCSP-VQ-40



[ADV7391WBCPZ](#)

Analog Devices, Inc
LFSCP-3



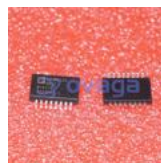
[ADV7390BCPZ](#)

Analog Devices, Inc
QFN32



[ADV7341BSTZ](#)

Analog Devices, Inc
LQFP-64



[ADUM4160BRIZ](#)

Analog Devices, Inc
SOIC-16