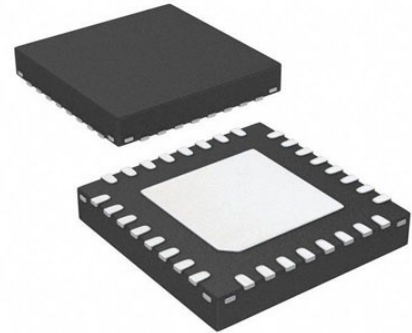


Video Decoder 1 ADC 10bit Automotive 32-Pin LFCSP EP Tray

|               |                                     |
|---------------|-------------------------------------|
| Manufacturers | <a href="#">Analog Devices, Inc</a> |
| Package/Case  | 32-WFQFN                            |
| Product Type  | Other Components                    |
| RoHS          | Pb-free Halide free                 |
| Lifecycle     |                                     |



Images are for reference only

Please submit RFQ for ADV7182AWBCPZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The ADV7182A has the same pinout and is software compatible with the ADV7182.

The ADV7182A is a versatile, one chip, multiformat videodecoder that automatically detects standard analog baseband video signals and converts them into YCbCr 4:2:2 component video data streams.

The analog input of the ADV7182A features a single, 10-bit analog-to-digital converter (ADC) and an on-chip differential to single-ended converter to accommodate direct connection of differential, pseudo differential, or single-ended CVBS without the need for external amplifier circuitry.

The standard definition processor (SDP) on the ADV7182A automatically detects NTSC, PAL, and SECAM standards in the form of CVBS (composite), S-Video (Y/C), and YPrPb (component). The analog video is converted into a 4:2:2 component video data stream that is compatible with the 8-bit ITU-R BT.656 interface standard. External synchronization timing signals are also available.

The ADV7182A is provided in a space-saving, LFCSP, surface-mount, RoHS compliant package. It is offered in an automotive grade rated over the  $-40^{\circ}\text{C}$  to  $+105^{\circ}\text{C}$  temperature range, as well as a  $-40^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$  industrial temperature range, making the device ideal for automotive, industrial, and consumer applications.

The ADV7182A must be configured in accordance with the I2C writes provided in the evaluation board script files.

## Features

Worldwide NTSC/PAL/SECAM color demodulation support

One 10-bit ADC, 4× oversampling per channel for CVBS, S-Video mode, and YPrPb

4 analog video input channels with on-chip antialiasing filter

Video input support for CVBS (composite), S-Video (Y/C), 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 rejection capability

5-line adaptive comb filters and CTI/DNR video enhancement

Integrated AGC with adaptive peak white mode

Fast switch capability

ACE

Downdither (8 bits to 6 bits)

Rovi copy protection detection

8-bit ITU-R BT.656 YCrCb 4:2:2 output and HS, VS, or field synchronization

Full-featured VBI data slicer with teletext support (WST)

Power-down mode available

2-wire serial MPU interface (I2C compatible)

Single 1.8 V supply possible

32-lead, 5 mm × 5 mm, RoHS compliant LFCSP

Qualified for automotive applications

## Application

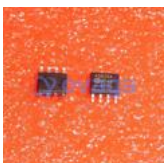
Advanced driver assistance

Automotive infotainment

DVRs for video security

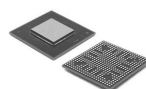
Media players

## Related Products



[AD820A](#)

Analog Devices, Inc



[AD8382ACPZ](#)

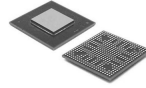
Analog Devices, Inc

LFCSP48



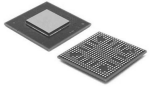
[ADA4638-1ACPZ](#)

Analog Devices, Inc  
CP-8-11



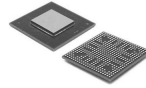
[ADV7393WBCPZ-REEL](#)

Analog Devices, Inc  
LFCSP40



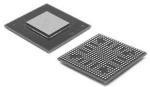
[ADV7392WBCPZ-REEL](#)

Analog Devices, Inc  
40-Lead LFCSP (6mm x 6mm w/ EP)



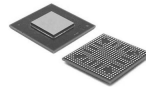
[ADV7282AWBCPZ-RL](#)

Analog Devices, Inc  
32-Lead LFCSP (5mm x 5mm x 0.75mm w/ EP)



[ADV7282AWBCPZ-M-RL](#)

Analog Devices, Inc  
32-Lead LFCSP (5mm x 5mm x 0.75mm w/ EP)



[ADV7282WBCPZ-RL](#)

Analog Devices, Inc  
32-Lead LFCSP (5mm x 5mm x 0.75mm w/ EP)