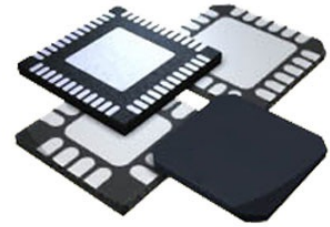


Video Decoder IC, 10 bit, 75 MSPS, 10 Channels, 1.65 V - 2 V, LFCSP-64

Manufacturers	<a href="#">Analog Devices, Inc</a>
Package/Case	QFN9X9
Product Type	Digital to Analog
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for ADV7181DBCZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The ADV7181D is a high quality, single-chip, multiformat videodecoder and graphics digitizer. This multiformat decoder supports the conversion of PAL, NTSC, and SECAM standards in the form of composite or S-Video into a digital ITU-R BT.656 format.

The ADV7181D also supports the decoding of a component RGB/YPrPb video signal into a digital YCrCb or RGB pixel output stream. Support for component video includes standards such as 525i, 625i, 525p, 625p, 720p, 1080i, and many other HD and SMPTE standards.

Graphics digitization is also supported by the ADV7181D; it is capable of digitizing RGB graphics signals from VGA to XGA rates and converting them into a digital DDR RGB or YCrCb pixel output stream. SCART and overlay functionality are enabled by the ability of the ADV7181D to simultaneously process CVBS and standard definition RGB signals. The mixing of these signals is controlled by the fast blank (FB) pin.

The ADV7181D contains two main processing sections. The first section is the standard definition processor (SDP), which processes all PAL, NTSC, and SECAM signal types. The second section is the component processor (CP), which processes YPrPb and RGB component formats, including RGB graphics.

The ADV7181D has unique software and hardware configuration requirements.

## Features

Four 10-bit ADCs sampling up to 75 MHz

10 analog input channels

SCART fast blank support

Internal antialiasing filters

NTSC, PAL, and SECAM color standards supported

525p/625p component progressive scan supported

720p/1080i component HDTV supported

Digitizes RGB graphics up to 1024 × 768 at 70 Hz (XGA)

3 × 3 color space conversion matrix

Industrial temperature range: -40°C to +85°C

12-bit 4:4:4 DDR, 8-/10-/16-/20-bit SDR pixel output interface

Programmable interrupt request output pin

Small package

Low pin count

Single front end for video and graphics

VBI data slicer (including teletext)

Qualified for automotive applications

## Application

Automotive entertainment

HDTVs

LCD/DLP® projectors

HDTV STBs with PVR

DVD recorders with progressive scan input support

AVR receivers

## Related Products



[ADV7181CBSTZ](#)  
Analog Devices, Inc  
LQFP-64



[AD724JR](#)  
Analog Devices, Inc  
SOIC-16



[ADV7391WBCPZ](#)  
Analog Devices, Inc  
LFSCP-3



[AD8170AR](#)  
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[ADUM4160BRIZ](#)

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