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ADV7802 12-Bit, SDTV/HDTV 3D Comb Filter, Video Decoder, and Graphics Digitizer

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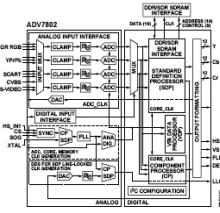
Product Description

The ADV7802 is a high quality, single-chip, multiformat 3D comb filter, video decoder, and graphics digitizer. This multiformat 3D comb filter decoder supports the conversion of PAL, NTSC, and SECAM. [More](#)

Please contact the [Video Development Group](#) for additional technical information.



Functional Block Diagram



[Symbols and Footprints](#)

Features

- 4 Noise Shaped Video (NSV®) 12-bit ADCs
- True 12-bit high dynamic range processing
- 12-channel analog input mux
- 36-bit digital YCbCr/RGB output
- 12-bit deep color processing
- Analog monitor output
- NTSC/PAL/SECAM color standards support
- NTSC/PAL 3D comb filter
- 3D noise reduction (DNR)
- Advanced time-base correction (TBC) with frame synchronization
- Interlaced-to-progressive conversion for 525i and 625i
- Advanced VBI data slicer, including Teletext, CC, and V-chip

Price, Packaging, and Availability

[Print Table](#)

ADV7802 Model Options									
Model	Status	Package	Pins	Temp. Range	Price* (1000 pcs.)	Available	RoHS Compliant	Samples Cart	Purchase Cart
ADV7802BSTZ-150	Contact ADI	LQFP 1.4 MM	176	TBD	\$18.77	4/18/2008	Y Material Declaration	Contact ADI	Contact ADI
ADV7802BSTZ-80	Contact ADI	LQFP 1.4 MM	176	TBD	\$14.44	3/7/2008	Y Material Declaration	Contact ADI	Contact ADI
EVAL-ADV7802EB1Z	Contact ADI	EVALUATION BOARDS	-	TBD	\$1,200.00	5/2/2008	Y	Contact ADI	Contact ADI
EVAL-ADV7802EB2Z	Contact ADI	EVALUATION BOARDS	-	TBD	\$1,200.00	-	Y	Contact ADI	Contact ADI

The USA list pricing shown is for BUDGETARY USE ONLY, shown in United States dollars (FOB USA per unit for the stated volume), and is subject to change. International prices may differ due to local duties, taxes, fees and exchange rates. For volume-specific price or delivery quotes, please contact your local Analog Devices, Inc. sales office or authorized distributor. Pricing displayed for Evaluation Boards and Kits is based on 1-piece pricing. [View Samples Cart](#) [View Purchase Cart](#)

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Part#	Resolution (Bits)	ADC Speed (MHz)	Output Resolution (bits)	Input Color Formats	Input Signal Types	Data Output Formats	# Input Channels	Power Dissipation (mW)	Package	Price* (1000 pcs.)
ADV7401	10	140	8	NTSC; PAL; SECAM	Composite; RGB; SCART; Y/C; YPbPr	12-bit RGB DDR; 24-bit YCbCr/RGB 4:4:4; 8 & 16-bit YCbCr 4:2:2	12	550	100-Lead LQFP	\$14.75
ADV7181B	9	54	8	NTSC; PAL; SECAM	Composite; Y/C; YPbPr	8 & 16-bit YCbCr 4:2:2	6	450	64-Lead LFCSP; 64-Lead LQFP	\$6.95
ADV7184	10	54	8	NTSC; PAL; SECAM	Composite; RGB; SCART; Y/C; YPbPr	8 & 16-bit YCbCr 4:2:2	12	550	80-Lead LQFP	\$8.50
ADV7188	12	54	10	NTSC; PAL; SECAM	Composite; RGB; SCART; Y/C; YPbPr	8 & 16-bit YCbCr 4:2:2	12	550	80-Lead LQFP	\$11.38
ADV7180	10	86	8	NTSC; PAL; SECAM	Composite; Y/C; YPbPr	8 & 16-bit YCbCr 4:2:2	6	250	40-Lead LFCSP; 64-Lead LQFP	\$5.70
ADV7403	12	140	10	NTSC; PAL; SECAM	Composite; RGB; SCART; Y/C; YPbPr	10 & 20-bit YCbCr 4:2:2; 12-bit RGB DDR; 24-bit YCbCr/RGB 4:4:4; 8 & 16-bit YCbCr 4:2:2	12	550	100-Lead LQFP	\$20.89
ADV7441	10	-	-	-	-	-	-	-	-	\$13.95
ADV7441A	10	-	-	-	-	-	-	-	-	**
ADV7443	12	-	-	-	-	-	-	-	-	\$15.84

* The pricing listed here is provided only for budgetary purposes as recommended list price in U.S. Dollars in the United States ex factor per unit for the stated volume. Pricing displayed for Evaluation Boards and Kits is based on 1-piece pricing.

** Pricing is currently unavailable. Click on the product number to see the Product Page for additional information.

New Video Decoders

[ADV7441A](#) - 10-Bit, Integrated, Multiformat SDTV/HDTV Video Decoder; RGB Graphics Digitizer; and 2:1 Multiplexed HDMI/DVI Interface

[ADV7802](#) - 12-Bit, SDTV/HDTV 3D Comb Filter, Video Decoder, and Graphics Digitizer

[ADV7800](#) - 10-Bit, SDTV/HDTV 3D Comb Filter, Video Decoder, and Graphics Digitizer

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