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AD9969: Single-Supply Cable Modem/Set-Top Box Mixed-Signal Front End

Product Status Production

The AD9969 is a single -supply cable modem/set -top box mixed-signal front end. The device contains a transmit path interpolation filter, a complete quadrature digital up - converter, and transmit DAC. The receive path contains dual 12 -bit ADC and a 10-bit ADC. All internally required clocks and an output system clock are generated by the PLL from a single crystal oscillator or clock ...[More](#)

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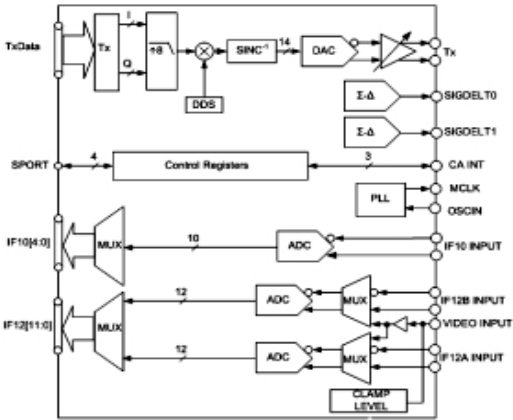
FEATURES

- Low cost 3.3 V CMOS MxFE™ for broadband applications
- DOCSIS, DOCSIS 2.0, OpenCable, EURO -DOCSIS, DVB-C, DAVIC compliant
- 232 MHz quadrature digital upconverter
- 14-bit direct IF DAC (TxDAC+™)
- Up to 65 MHz carrier frequency DDS
- Programmable sampling clock rates

SPECIFICATIONS

- Analog Tx output level adjust
- Dual 12 -bit, 29 MSPS direct IF ADCs with video clamp input
- 10-bit, 29 MSPS sampling ADC
- Dual 8-bit sigma -delta auxiliary DACs
- Direct interface to AD8321/AD8323 or AD8322/AD8327 PGA cable driver

FUNCTIONAL BLOCK DIAGRAM FOR AD9969



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AD9969 Model Options

Model	Status	Package	Pins	Temp. Range	Price* (100-499)	Price* (1000 pcs.)	RoHS?	View PCN/PDN	Samples
AD9969JSTZ	Prodn	LQFP 1.4 MM	100	Comm.			Y Material Info	View PCN	Contact ADI

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**When "Not recommended" is shown in the product status, it means that the model is still in production, but is not recommended for new design.

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