

Digital to Analog Converters - DAC 250MHz Dual DCL w/DAC levels & PMU

Manufacturers	<a href="#">Analog Devices, Inc</a>
Package/Case	TQFP-100
Product Type	Specialty Amplifiers ; ATE: Pin Drivers
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for ADATE305BSVZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The driver features three active states: data high mode, data low mode, and term mode, as well as an inhibit state. The inhibit state, in conjunction with the integrated dynamic clamp, facilitates the implementation of a high speed active termination. The ADATE305 supports two output voltage ranges:  $-2.0\text{ V}$  to  $+6.0\text{ V}$  and  $-1.5\text{ V}$  to  $+6.0\text{ V}$  by adjusting the positive and negative supply voltages.

The ADATE305 can be used as either a dual single-ended drive/ receive channel or a single differential drive/receive channel. Each channel of the ADATE305 features a high speed window comparator per pin for functional testing, as well as a per pin PMU with FV, or FI and MV, or MI functions. All necessary dc levels for DCL functions are generated by on-chip 14-bit DACs. The per pin PMU features an on-chip 16-bit DAC for high accuracy and contains integrated range resistors to minimize external component counts.

The ADATE305 uses a serial bus to program all functional blocks and has an on-board temperature sensor for monitoring the device temperature.

## Features

Driver See Data Sheet for Additional Information

Comparator Window and differential comparator 500 MHz input equivalent bandwidth

Load  $\pm 12$  mA maximum current capability

Per pin PMU See Data Sheet for Additional Information

Levels See Data Sheet for Additional Information

HVOUT output buffer 0 V to 13.5 V output range

100-lead, 14 mm  $\times$  14 mm, TQFP\_EP package

900 mW per channel with no load

## Application

Automatic test equipment

Semiconductor test systems

Board test systems

Instrumentation and characterization equipment

Data Sheet, Rev. 0, 8/08

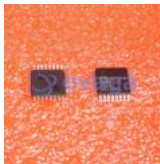




### Related Products



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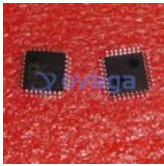
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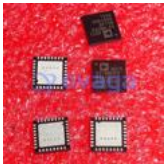
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