

# 32 Gbaud Dual-Channel, Differential Input, Linear Transimpedance/Variable-Gain Amplifier

#### Part No.

IN3250TA

# **Product Type**

**Transimpedance Amplifiers** 

#### **Market Segments**

Long Haul/Metro

## **Applications**

100G/200G Coherent Receivers Class 20 ICR

#### **Features**

- Supports baud rates up to 32 Gbaud
- · Dual-channel monolithic TIA/VGA
- 500 µm channel pitch
- · Wide differential electrical gain
- · High electrical bandwidth
- · Adjustable output amplitude
- · Automatic or manual gain control
- · Peak detector output
- Output control
- Low power consumption
- · Available in die form

## **Description**

The IN3250TA is a dual-channel, differential linear transimpedance/variable-gain amplifier (TIA/VGA) for 100G and 200G coherent detection receivers for long haul and metro networks.

The IN3250TA offers two gain control modes: manual and automatic. In manual mode, the gain is controlled via an external control pin. In automatic mode, the gain is automatically adjusted to deliver a constant output voltage.

The IN3250TA includes an adjustable bandwidth feature that allows the user to optimize receiver frequency response for different photodiode and ADC/DSP combinations.

The IN3250TA operates from a +3.3 V power supply and is available in die form.



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