

28 Gbaud Quad-Channel, Single-Ended Input, Linear Transimpedance/Variable-Gain Amplifier with RSSI

Part No.

IN2864TA

Product Type

Transimpedance Amplifiers

Market Segments

Inside Data Centers

Applications

200G/400G Optical Receivers

Features

- Supports baud rates up to 28 Gbaud
- Quad-channel monolithic TIA/VGA
- 750 μm channel pitch
- Wide transimpedance gain range
- High electrical bandwidth
- Adjustable output amplitude
- Low noise
- High input overload current
- Low power consumption
- Available in die form

Description

The IN2864TA is a low power quad-channel, single-ended input, linear transimpedance/ variable-gain amplifier (TIA/ VGA) for 200G and 400G optical receivers.

The IN2864TA operates in automatic gain mode and provides the transimpedance gain range necessary to support a very wide input optical power range. It has low input referred noise current density and provides linear amplification for high input currents.

The IN2864TA has high electrical bandwidth and includes an adjustable bandwidth/peaking feature that allows the user to optimize receiver frequency response.

The IN2864TA provides an RSSI function for optical alignment.

The IN2864TA operates from a +3.3 V power supply, consumes low power, and is available in die form.