

56 Gbaud Quad-Channel, Single-Ended Input, Linear Transimpedance/Variable-Gain Amplifier

Part No.

IN5664TA

Product Type

Transimpedance Amplifiers

Market Segments

Inside Data Centers

Applications

400G Optical Receivers

Features

- Supports baud rates up to 56 Gbaud
- Quad-channel monolithic TIA/VGA
- 750 μm channel pitch
- Wide differential electrical gain
- High electrical bandwidth
- Adjustable AGC output amplitude
- Low noise
- Low power consumption
- I2C serial interface supported
- Available in die form

Description

The IN5664TA is a quad-channel, single-ended input, linear transimpedance/ variable-gain amplifier (TIA/ VGA) for 400G optical receivers.

The IN5664TA operates in automatic gain mode. It can adjust its single-ended input transimpedance and delivers an output voltage in AGC mode.

The IN5664TA supports a very wide input optical power range. It has extremely low input referred noise current density and provides linear amplification.

The IN5664TA provides an RSSI function to monitor and report average optical input power.

The IN5664TA operates from a single +3.3 V power supply and is available in die form.