

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.



To deliver the data infrastructure technology that connects the world, we're building solutions on the most powerful foundation: our partnerships with our customers. Trusted by the world's leading technology companies for 25 years, we move, store, process and secure the world's data with semiconductor solutions designed for our customers' current needs and future ambitions. Through a process of deep collaboration and transparency, we're ultimately changing the way tomorrow's enterprise, cloud, automotive, and carrier architectures transform—for the better.