

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

Part No.

IN11264TA

Product Type

Transimpedance Amplifiers

Market Segments

Inside Data Center

Applications

- 800G/1.6T SMF Optical Receiver

Features

- Supports baud rates up to 112 Gbaud
- Quad-channel monolithic TIA/VGA
- Wide differential electrical gain range
- High optical bandwidth
- Adjustable AGC output amplitude
- Low power consumption
- LOS detection available
- Available in die form

Description

The IN11264TA is a quad-channel, single-ended input linear transimpedance/variable-gain amplifier (TIA/VGA) for 800 GbE-DR4 and FR4 optical receivers.

The IN11264TA operates in automatic gain control (AGC) mode, automatically adjusting transimpedance to deliver an output swing set by the customer.

The IN11264TA supports a very wide input optical power range and has high optical bandwidth. It provides an RSSI function to monitor and report average optical input power.

The IN11264TA has solder bumps for photodiodes to be flipped onto the TIA die to reduce the input interface parasites and crosstalk.

The IN11264TA operates from a single +3.3V power supply with a die size of 3.223 mm x 1.453 mm.