

56 Gbaud Octal-Channel, Single-Ended Input, Linear Transimpedance/Variable-Gain Amplifier with 500 μm Input Channel Pitch

Part No.

IN5660TA

Product Type

Transimpedance Amplifiers

Market Segments

Inside Data Centers

Applications

800GbE-DR8 SMF Optical Receiver
800GbE-FR8 SMF Optical Receiver

Description

The IN5660TA is an octal-channel, single-ended input, linear transimpedance/variable-gain amplifier (TIA/ VGA) for 800 GbE-DR8 and FR8 optical receivers.

The IN5660TA operates in automatic gain mode. It can adjust its single-ended input transimpedance and delivers an output voltage in AGC mode.

The IN5660TA supports a very wide input optical power range. It has extremely low input referred noise current density and provides linear amplification.

The IN5660TA provides an RSSI function to monitor and report average optical input power.

The IN5660TA operates from a single +3.3 V power supply and is available in die form.

Features

- Supports baud rates up to 56 Gbaud
- Octal-channel monolithic TIA/VGA
- Wide differential electrical gain
- High electrical bandwidth
- Adjustable AGC output amplitude
- Low noise
- Low power consumption
- 500 μm input channel pitch
- Available in die form