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

Part No.

IN5668FC

Product Type

Transimpedance Amplifiers

Market Segments

Inside Data Centers

Applications

800G Optical Receivers

Features

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

Description

The IN5668FC is a quad-channel, single-ended input, linear transimpedance/ variable-gain amplifier (TIA/ VGA) for 800G optical receivers.

The IN5668FC operates in automatic gain mode. It can adjust its single-ended input transimpedance and delivers an output voltage in AGC mode.

The IN5668FC supports a very wide input optical power range. It has extremely low input referred noise current density and provides linear amplification.

The IN5668FC provides an RSSI function to monitor and report average optical input power.

The IN5668FC operates from a single +3.3 V power supply and is available in flip chip form.