

# 56 Gbaud Single-Channel, Single-Ended Input, Linear Transimpedance/Variable-Gain Amplifier for 5G Wireless Applications

**Part No.**

IN5662TA

**Product Type**

Transimpedance Amplifiers

**Market Segments**

Inside Data Centers

**Applications**100G Optical Receivers  
5G Wireless Front Haul**Features**

- Supports baud rates up to 56 Gbaud
- Single-channel monolithic TIA/VGA
- Wide differential electrical gain
- High electrical bandwidth
- Adjustable output amplitude in AGC mode
- Low noise
- Low power consumption
- Industrial temperature
- Available in die form

**Description**

The IN5662TA is a single-channel, single-ended input, linear transimpedance/ variable-gain amplifier (TIA/ VGA) for 5G wireless applications.

The IN5662TA operates in automatic gain mode. It can adjust its single-ended input transimpedance and delivers an output voltage in AGC mode.

The IN5662TA supports a very wide input optical power range. It has extremely low input referred noise current density and provides linear amplification.

The IN5662TA provides an RSSI function to monitor and report average optical input power.

The IN5662TA has a wide temperature range, operates from a single +3.3 V power supply, and is available in die form.