

Transimpedance Amplifier Products

Article Overview

Transimpedance amplifiers (TIAs) are available from leading manufacturers like Texas Instruments, Analog Devices, MACOM, and Marvell, supporting applications from optical communications to high-speed RF and linear amplification.

Manufacturer Offerings

Texas Instruments (TI) provides a broad selection of TIAs with detailed datasheets and design resources, suitable for various photodiode current-to-voltage conversion applications . Analog Devices offers high-performance optical and logarithmic TIAs, supporting data rates from 155 Mbps up to 11.1 Gbps, optimized for precise photodiode signal conversion . MACOM specializes in RF transimpedance amplifiers for optical fiber communications, supporting data rates up to 43 Gb/s, suitable for high-speed analog and mixed-signal applications . Marvell focuses on linear TIAs for high-speed cloud AI connectivity and long-haul optical links, powering PAM4 and coherent-based pluggable optical modules from 100G to 1.6T and beyond. Their TIAs emphasize linear amplification to maximize data per optical symbol .

Distribution and Availability

Mouser Electronics is an authorized distributor for TIAs from multiple manufacturers, including TI, Analog Devices, and others. They provide inventory, pricing, and datasheets, allowing engineers to filter products by parameters such as bandwidth, gain, and data rate .

Key Considerations...

Article Content

Apr 18, 2026

Transimpedance amplifiers | TI

Our high-bandwidth transimpedance amplifier (TIA) portfolio includes devices with variable gain settings, fast recovery time, internal

Apr 15, 2026

Transimpedance amplifier circuit. (Rev

The transimpedance op amp circuit configuration converts an input current source into an output voltage. The current to voltage gain

Mar 09, 2026

Transimpedance Amplifiers | Delivering World Class

Powering the fastest networks on the planet: Marvell's transimpedance amplifiers (TIAs) ushered in the era

Jan 03, 2026

FEMTO®

The DLPCA-200 is an adjustable transimpedance amplifier for measuring very small currents with bandwidths in the kHz range. It is

Nov 11, 2025

Transimpedance Amplifiers (TIAs) | Semtech

Transimpedance Amplifiers (TIAs) Semtech offers a broad portfolio of fully integrated BiCMOS and pure CMOS transimpedance

Feb 21, 2026

Transimpedance Amplifiers

A Transimpedance Amplifier is an electronic circuit that converts a current input signal from a photodetector into an output voltage.

Nov 27, 2025

Transimpedance Amplifiers

MACOM's optoelectronics products include a wide range of transimpedance amplifiers (TIA) for line and client side fiber optic

Feb 20, 2026

FEMTO®

FEMTO® - Low-noise current / transimpedance amplifiers for measuring sub-femtoampere to milliampere with bandwidths up to 400

Feb 02, 2026

LTC6561 Datasheet and Product Info | Analog Devices

The LTC6561 multi-channel transimpedance amplifier's low noise, high transimpedance, and low power dissipation

Apr 19, 2026

Transimpedance Amplifiers - Mouser Europe

Transimpedance Amplifiers are available at Mouser from leading manufacturers. Mouser is an authorized distributor for many

Sep 23, 2025

Transimpedance Amplifiers | TZA | TIA

We offer high-quality and powerful transimpedance amplifiers with precise current measurement! Low

Dec 02, 2025

OPA857 Transimpedance Amplifier

TI's OPA857 amp is a wideband, ultra-low-noise, fast overdrive recovery, fast-setting transimpedance amplifier.

Oct 31, 2025

Transimpedance amplifier

Find your transimpedance amplifier easily amongst the 15 products from the leading brands (Gigahertz

Jun 14, 2026

Transimpedanzverstärker Produktauswahl | TI

Auswahl aus TIs Transimpedanzverstärker Familie an Geräten.
Transimpedanzverstärker Parameter, Datenblätter und

Nov 17, 2025

Transimpedance Instrumentation, Op Amps, Buffer Amps

Shop DigiKey's large in-stock selection of Instrumentation, Op Amps, Buffer Amps. View inventory, pricing and order now for same

Nov 30, 2025

Transimpedance Amplifiers – Mouser

Transimpedance Amplifiers are available at Mouser Electronics. Mouser offers inventory, pricing, & datasheets for Transimpedance

Oct 16, 2025

FEMTO®

The ultimate high speed transimpedance amplifier The DHPCA-100 variable gain transimpedance amplifier is the perfect choice for

Aug 31, 2025

Transimpedance Amplifiers Selection Guide: Types, Features

Transimpedance amplifiers (TIAs) are used to convert an input current into an output voltage. Applications Transimpedance

Dec 29, 2025

13 Transimpedance Amplifier Manufacturers in 2026 | Metoree

13 Transimpedance Amplifier Manufacturers in 2026 This section provides an overview for transimpedance amplifiers as well as their

May 24, 2026

FEMTO®

The DLPCA-200 offers variable transimpedance gain from 103 to 1011 V/A allowing the sensitive measurement of currents in the sub

Oct 10, 2025

Transimpedance Amplifiers (TIA) | Analog Devices

Analog Devices' optical and logarithmic transimpedance amplifiers (TIAs) offer high performance, single-chip solutions for precise

Jun 04, 2026

Transimpedance Amplifiers | I To V Converter | RS

Transimpedance amplifiers are used with sensors which have a current response that is more linear than the voltage response.

Apr 13, 2026

Optical Transimpedance Amplifiers | Renesas

Discover Renesas optical transimpedance amplifiers (TIAs) for data center, metro, and long-haul networks. Linear and limiting TIAs

Jan 27, 2026

Transimpedance amplifier

Transimpedance amplifier Fig. 1. Simple transimpedance amplifier which converts an input current source i_{in} into a voltage output

Dec 19, 2025

What you need to know about transimpedance amplifiers part 1

What You Need to Know about Transimpedance Amplifiers – Part 1 Samir Cherian
Transimpedance amplifiers (TIAs) act as front

Contact Us

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