

Manufacturer of Transimpedance Amplifiers NRZ



AI Overview

Key manufacturers of NRZ-compatible transimpedance amplifiers include Coherent, Semtech, MACOM, Marvell, and LUXIC Technology.

Leading Manufacturers and Their Offerings

Coherent offers high-speed TIAs optimized for optical interconnects from 56Gbps to 224Gbps per channel. Their products feature low noise, programmable gain, and advanced equalization, suitable for AI infrastructure, hyperscale data centers, and high-speed optical modules . Semtech provides FiberEdge® and PON-X® TIAs that support NRZ, Burst Mode, and PAM4 signaling. Their portfolio includes BiCMOS and CMOS TIAs with wideband, low-noise pre-amplification for PIN or APD photodetectors, covering speeds from 155Mbps to 100Gbps . MACOM manufactures linear and limiting TIAs for NRZ and PAM4 receivers, supporting line and client-side fiber optic receivers up to 1.6Tbps. Their TIAs are available in die form or integrated with CDRs, offering high gain, low noise, and efficient power dissipation . Marvell focuses on linear TIAs for PAM4 and coherent optical modules, but their portfolio also includes solutions compatible with NRZ signaling for high-speed cloud AI connectivity and long-haul optical links from 100G to 1.6T . LUXIC Technology provides a wide range of high-speed TIAs, including limiting, burst mode, and linear types for NRZ, PAM4, and coherent applications. Their products support transceiver modules from 10Gbps to 1.6Tbps and feature low input noise and low power consumption .

Summary...

Article Content

Feb 08, 2026

90-Gb/s NRZ Optical Receiver in Silicon Using a Fully Differential ...

Abstract We present the design and implementation of a 90 -Gb/s non-return-to-zero (NRZ) direct detection optical receiver that

Jun 05, 2026

Transimpedance Amplifiers

Our portfolio includes linear TIAs for coherent and PAM-4 receivers and limiting TIAs for NRZ based receivers. These parts feature

Jul 09, 2026

Inductorless Broadband Transimpedance Amplifier for

Abstract—In this study, an inductorless broadband transimpedance amplifier (TIA) is implemented using TSMC 90-nm

Jul 07, 2026

Transimpedance Amplifiers (TIA)

Transimpedance Amplifiers Coherent TIA's are designed to achieve the best possible optical transceiver performance at low power

May 17, 2026

32-Gb/s NRZ and 40-Gb/s PAM-4 Transimpedance Amplifier

AbstractIn this article, a wide-bandwidth, fully differential transimpedance amplifier (TIA) is implemented in Taiwan

Jan 21, 2026

Transimpedance Amplifiers | Delivering World Class

Marvell TIAs provide world class linear amplification of signals transmitted from nearby switches in a mega

Feb 05, 2026

Transimpedance Amplifiers – Mouser

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

Nov 22, 2025

Transimpedance Amplifiers

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

Nov 17, 2025

Transimpedance Amplifiers (TIA)

High-speed transimpedance amplifiers for IMDD and coherent optical links, supporting up to 112GBaud IMDD and 64GBaud DCO

Dec 10, 2025

Transimpedance Amplifiers – Mouser

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Sep 06, 2025

Transimpedance Amplifiers (TIAs) | Semtech

Semtech offers a broad portfolio of fully integrated BiCMOS and pure CMOS transimpedance amplifiers (TIAs) providing wideband,

Mar 07, 2026

Transimpedance amplifiers product selection | TI

Select from TI's Transimpedance amplifiers family of devices. Transimpedance amplifiers parameters, data sheets, and design

May 07, 2026

Transimpedance Amplifiers – Mouser

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Dec 27, 2025

Transimpedance Amplifiers (TIA) | Analog Devices

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

Oct 06, 2025

Transimpedance Amplifiers (TIA)

High-performance TIAs for next-generation optical receivers. Coherent's high-speed transimpedance amplifiers (TIAs) deliver best-in

Dec 11, 2025

Transimpedance Amplifiers (TIAs) | Semtech

Transimpedance Amplifiers (TIAs) Transimpedance Amplifiers (TIAs) Semtech offers a broad portfolio of fully integrated BiCMOS

Oct 25, 2025

PHY1095 Datasheet and Product Info | Analog Devices

Working from a 3.3V power supply, the PHY1095 integrates a low-noise transimpedance amplifier, with a typical

Sep 04, 2025

MATA-39434

MATA-39434 Quad Linear 53GBaud PAM4/NRZ Transimpedance Amplifier, 106Gbps
The MATA-39434A is a quad 53GBaud linear

Feb 15, 2026

FEMTO®

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

Oct 25, 2025

Transimpedanzverstärker – Mouser Deutschland

Transimpedanzverstärker Transimpedance Amplifiers are available at Mouser from leading manufacturers. Mouser is an authorized

Mar 02, 2026

Transimpedance Amplifier

Find Transimpedance Amplifier related suppliers, manufacturers, products and specifications on GlobalSpec - a trusted source of

Jan 01, 2026

Transimpedance Amplifiers (TIAs) | Semtech

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

Jul 30, 2025

Transimpedance Amplifier

minisilicon provides a variety of transimpedance amplifier (TIA) chip products, which use SiGe technology. It can realize wide-band

Contact Us

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