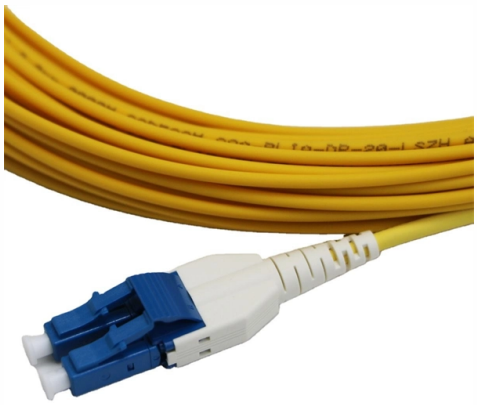
Request a price quote for a transimpedance amplifier SFP



Overview

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Key Takeaways

Transimpedance amplifiers for SFP modules typically range from $5 to $50 per unit, depending on speed, features, and supplier.

Price Overview

The cost of a TIA for SFP transceivers depends on data rate, noise performance, and packaging. For example: MAX3744/MAX3745: Designed for up to 2. 7 Gbps SFP modules, low-power, compact die, and integrated RSSI.

These types of TIAs are generally considered low-cost solutions, often in the $5–$15 range per unit when purchased in small quantities. ONET8551T: High-speed, high-gain TIA for optical receivers up to 11. 3 Gbps, with low input noise and 9 GHz bandwidth.

Devices like this are more advanced and typically cost $20–$50 per unit, depending on packaging and supplier.

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Suppliers and Availability

Mouser Electronics: Offers a wide selection of TIAs from manufacturers like Analog Devices and Texas Instruments, with pricing available per unit and quantity discounts.

TR

X Electronics: Provides online pricing and ordering for various TIA models. FS.com: While primarily a transceiver supplier, SFP modules with integrated TIAs are available, offering cost-effective solutions for networking applications.

Factors Affecting Cost

Data Rate: Higher-speed TIAs (10 Gbps and above) are more expensive due to tighter design tolerances and lower noise requirements. Packaging: Die form or TO-can packaging affects assembly costs. Integrated solutions with RSSI or DC cancellation may cost more.

Quantity: Bulk orders significantly reduce per-unit cost. Supplier and Tariffs: Prices vary by distributor and may include tariffs depending on shipping location.

Summary

For SF

P module applications, low-speed TIAs (≤2. 7 Gbps) are generally $5–$15, while high-speed TIAs (≥10 Gbps) can range $20–$50 per unit. Purchasing through authorized distributors like Mouser or TRX Electronics ensures access to datasheets, pricing, and support for integration into SFP transceivers.

Article Content

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Mouser offers inventory, pricing, & datasheets for Transimpedance Amplifiers.

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Download datasheets and request quotes for products that you find interesting. Your inquiry will be directed to the manufacturer and their distributors in your region.

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Transimpedance Amplifiers – Mouser Europe

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Credo Technology Group Holding Ltd Introduces Quad Channel ...

Credo Technology Group Holding Ltd. announced the availability of Seagull 452 family of high-performance, low-power optical Digital Signal Processors . The family consists of the octal

A Complete Guide to Transimpedance Amplifier in 2025 | ODG

That''s where a transimpedance amplifier comes in! It''s a current-to-voltage converter and helps with signal processing and analysis. If you want to know more about transimpedance

Worldwide Optical Transimpedance Amplifier Market 2026

The Global Optical Transimpedance Amplifier Market was valued at USD 2.47 Billion in 2025 and is projected to reach USD 6.02 Billion by 2032, growing at a CAGR of 13.6%.

Transimpedance Amplifier Stability

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Learn about transimpedance amplifier stability with practical methods and useful examples. This article covers transimpedance amplifiers and how to stabilize them. If you''d like to

The Transimpedance Amplifier Circuit : 4 Steps

The Transimpedance Amplifier Circuit: The Transimpedance Amplifier (TIA) is a useful circuit that allows the circuit-designer to turn light hitting a photodiode into

Transimpedance Amplifier Gain ac and S-parameter Analysis

I''m currently working on finding the transimpedance gain of a transimpedance amplifier. However, I''ve encountered an issue where I get different gains when performing AC analysis

MAX3799 Datasheet and Product Info | Analog Devices

The high-sensitivity limiting amplifier limits the differential input signal generated by a transimpedance amplifier into a CML-level differential output signal. The compact VCSEL driver

Transimpedance Amplifier

Transimpedance Amplifier minisilicon provides a variety of transimpedance amplifier (TIA) chip products, which use SiGe technology. It can realize wide-band low-noise preamplification of PIN or APD

Amazon : Taidacent AD8015 Wideband/Differential Output ...

The differential output can directly drive ECL, or drive a comparator/fiber post amplifier. In addition to fiber optic applications, this low-cost, silicon-based, rather than GaAs-based transimpedance

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