

## Description

The HXR6101 Trans-impedance Limiting Amplifier is targeted at the optical links market. Together with a PIN detector, high-capacity, high-availability optical links can be designed for datacom applications.

The 3.3V SiGe device integrates the trans-impedance pre-amplifier, the limiting post-amplifier and a versatile CML output stage for a single 16 Gbps channel.

## Typical Applications

- IEEE 802.3ae Ethernet transceivers
- InfiniBand QDR & FDR active cables
- Proprietary optical modules

## Features

- 20  $\mu$ App receiver sensitivity for  $10^{-12}$  BER at 10.3 Gbps
- Better than 3 mApp overload
- 60 mW power consumption with low power setting
- Adjustable output swing size and pre-emphasis mode and signal detect threshold
- A/D read-out of temperature, RSSI information

## Ordering Information

Part	Temp Range	Pin-Package
HXR6101-DNT	0°C to +85°C	Bare Die 750um x 750um
HXR6101-EVB	Room Temp	Evaluation Board

For price, delivery schedules, and to place orders, please contact IDT: [www.IDT.com/go/sales](http://www.IDT.com/go/sales)

## Block Diagram

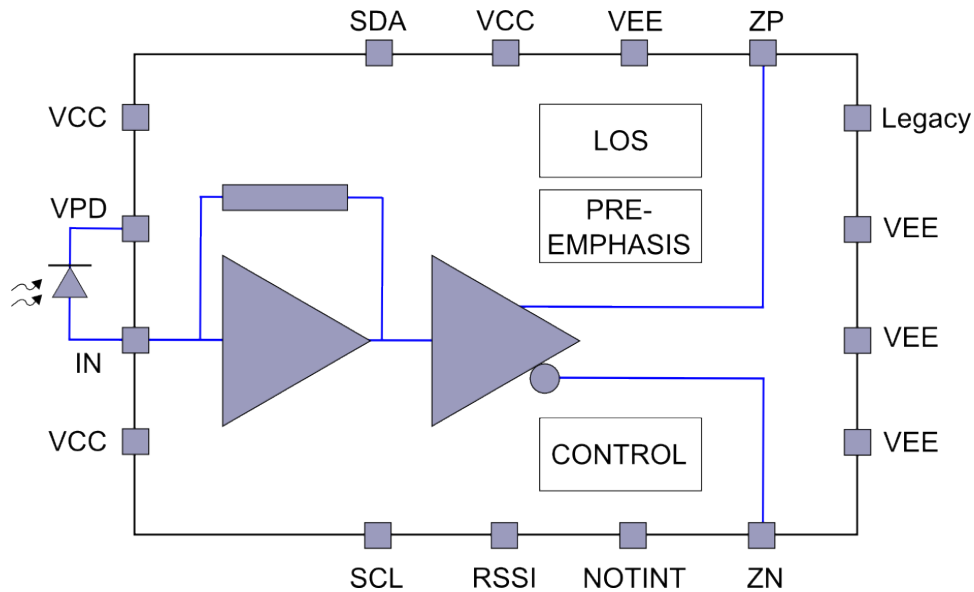


Figure 1: Block Diagram



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### Corporate Headquarters

TOYOSU FORESIA, 3-2-24 Toyosu,  
Koto-ku, Tokyo 135-0061, Japan  
[www.renesas.com](http://www.renesas.com)

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