General Description

DT

The HXR6112 Transimpedance Limiting Amplifier array is a member of IDT's family of Optical Receiver Transmitter Array (ORTA) products targeted at the parallel optical links market. Together with a PIN detector array or discrete detectors, high-capacity, highavailability optical links can be designed for datacom applications.

3.3V The SiGe device integrates the transimpedance pre-amplifier, the limiting postamplifier and a versatile CML output stage for twelve optical channels.

Applications

Device Diagram

- IEEE 802.3ba Ethernet transceivers
- InfiniBand QDR & FDR active cables
- Proprietary multi-channel optical modules

Features

- 20 μ App receiver sensitivity for 10⁻¹² BER at 16 Gbps. Better than 3 mApp overload
- 60 mW per channel power consumption with low power setting
- Adjustable output swing size and preemphasis and signal detect threshold
- Independent RSSI
- Optimized for isolated and common cathode photo-detector arrays from multiple vendors
- Control lines accessible on both sides of the chip

Ordering Information

Part	Temp Range	Pin-Package
HXR6112-DNT	0°C to +85°C	Bare Die 2.05mm x 3.65mm
HXR6112-EVB	Room Temp	Evaluation Board

For price, delivery schedules, and to place orders, please contact IDT: www.IDT.com/go/sales

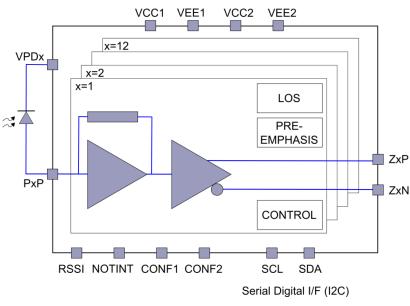


Figure 1: Device diagram

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