

## **General Description**

The HXR5104B Trans-impedance 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, high-availability optical links can be designed for telecom and datacom applications.

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

# **Applications**

- IEEE 802.3ba Ethernet LR4 transceivers
- InfiniBand QDR & FDR active cables
- Proprietary multi-channel optical modules

### **Features**

- 20 μApp receiver sensitivity for 10<sup>-12</sup> BER at 10.3 Gbps; better than 3.0mApp overload
- 66 mW per channel typical power consumption with low power setting
- Adjustable output swing size and preemphasis mode 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
- QSFP MSA compliance

## **Ordering Information**

Part	Temp Range	Pin-Package
HXR5104B-DNT	0°C to +95°C	Bare Die
		2.05mm x 1.67mm

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

# **Device Diagram**

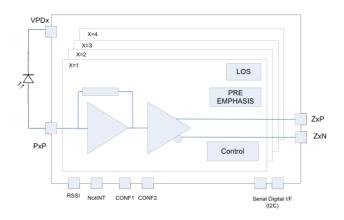


Figure 1: Device diagram





#### **Corporate Headquarters**

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#### Sales

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### **Tech Support**

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