### **General Description**

The HXT8201 VCSEL driver is a key component for compact, robust, low-power optical transmitter modules. In conjunction with the VCSEL, the chip handles the complete digital-tooptical conversion, including CML input, laser driver, drive control, and supervision. Standard silicon technology and a small number of additional components allow for cost-effective and compact assemblies.

# Applications

- 100G to 25G Ethernet SR Fan-out Modules
- 25G Ethernet SR / 32G Fibre Channel
- InfiniBand 25G EDR Transceivers / AOC
- Proprietary multi-channel optical modules

### Features

- Low power consumption of 118mW per channel while delivering 5mA average and 5mA modulation current
- User selectable: Input equalization, output peaking, polarity inversion, interrupt masks
- Compatible with common cathode and isolated VCSEL arrays
- 2-wire, I<sup>2</sup>C compatible control interface
- Up to 10mA  $I_{AVG}$  and 10mA  $I_{MOD}$  current
- Suitable for TO Can applications
- SFP MSA Compatible

## **Ordering Information**

Part	Temp Range	Pin-Package
HXT8201-DNT	0°C to +85°C	Bare Die* 1105 x 900μm
HXT8201-EVB	Room Temp	Evaluation Board

\* Nominal Size: Actual die size may be slightly larger/smaller

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



#### Figure 1: Device Diagram

### **Device Diagram**



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