

## 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-to-optical 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<sub>Avg</sub> and 10mA I<sub>Mod</sub> 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*<br>1105 x 900 $\mu$ m |
| 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: [www.IDT.com/go/sales](http://www.IDT.com/go/sales)

## Device Diagram

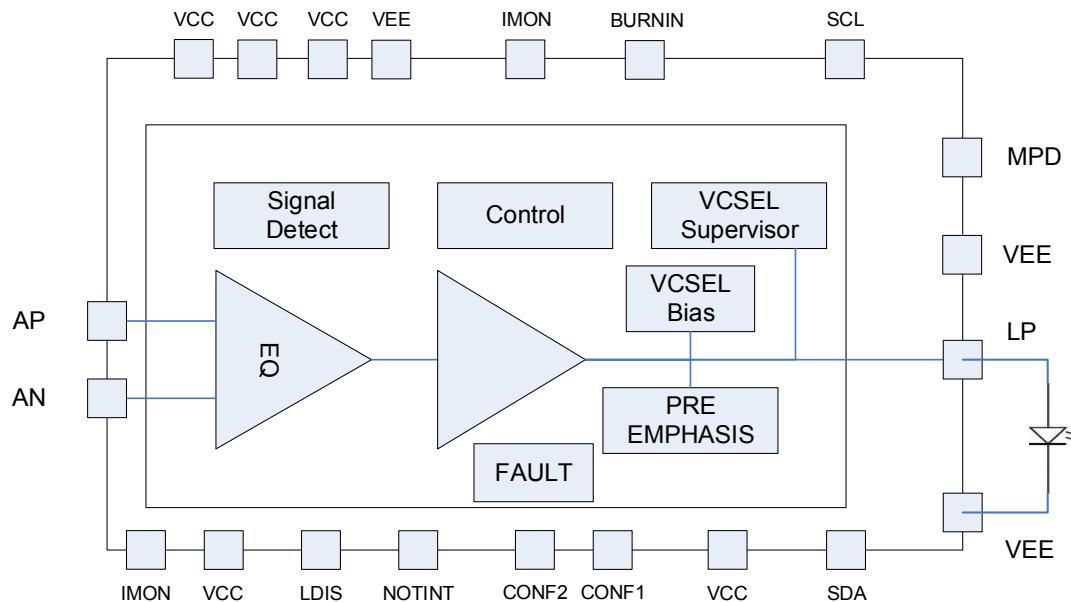


Figure 1: Device Diagram



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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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