

HXT6204

4-Channel 28Gb/s VCSEL Driver

Description

The HXT6204 VCSEL driver array is a key component for compact, robust, low-power optical transmitter modules. In conjunction with the VCSEL array, 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

- InfiniBand EDR transceivers
- InfiniBand EDR active cables
- Proprietary multi-channel optical modules

Features

- Low power consumption of 150mW per channel while delivering 5mA average and 5mA modulation current
- Compatible with common cathode and isolated VCSEL arrays
- 2-wire interface control and symmetric pad design maximize module design flexibility
- Up to 10mA average and 10mA modulation current
- QSFP MSA compliant

Ordering Information

| Part | Temperature Range | Pin-Package |
|-------------|-------------------|-------------------------------|
| HXT6204-DNT | 0°C to +85°C | Bare Die* 1.950 × 1.575 mm |
| HXT6204-EVB | Room Temperature | Evaluation Board |

* Die Design Size; Actual die size may be slightly larger

For price, delivery schedules, and to place orders, contact Renesas [sales](#).

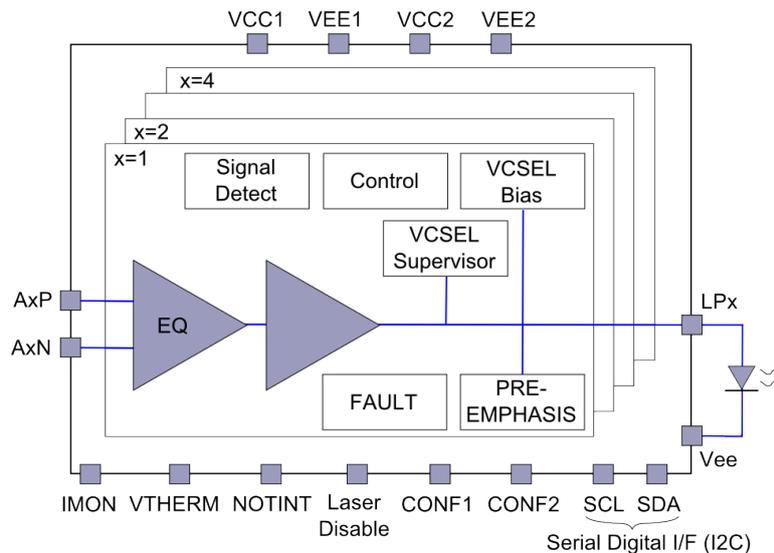


Figure 1. Device Diagram

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