

HXT8212-DNG

12-Channel 28Gbps VCSEL Driver

The HXT8212 is a 12-channel VCSEL driver array with equalization input and high output current. In conjunction with a VCSEL array, the transmitter can provide as high as 28Gbps NRZ signals with low power consumption.

The HXT8212 is designed with CML input, input equalization, and laser driver. Enhanced analog mode and I<sup>2</sup>C digital control interface provide various control and supervision functions. The device also supports low power mode (with CDR) and high power mode (without CDR) to accommodate customized applications.

Applications

- Ethernet SR modules and AOC
- Industrial optical interconnect applications and optical HDMI cables
- InfiniBand EDR transceivers and AOC
- Proprietary multi-channel optical modules

Features

- Low power consumption of 168mW 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
- Built-in VCSEL Burn-in mode
- Input equalization for non-CDR modules

Ordering Information

Part	Temp. Range	Pin-Package
HXT8212-DNG	-40 to +105°C	Bare Die* 1975 x 3600µm
HXT8212-EVB	Room Temp.	Evaluation Board

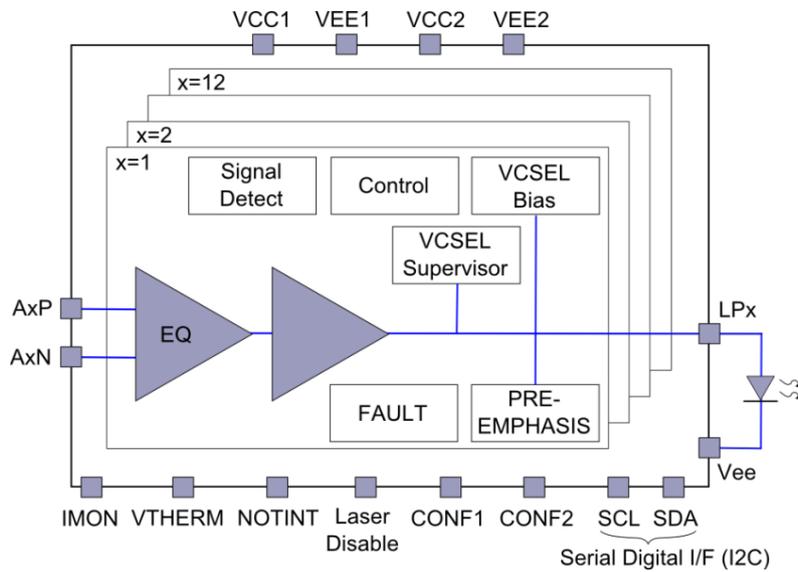


Figure 1. Block Diagram

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