

## Description

The HXT6101 VCSEL driver is a key component for compact, robust and 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.

## Features

- Low power consumption of 46mW while delivering 5mA average and 5mA modulation current
- Two-wire interface control and symmetric pad design maximize module design flexibility
- 10mA average and 10mA modulation current maximum
- 15mA burn-in current maximum
- A/D read-out of temperature, effective VCSEL current, and monitor photo-current

## Typical Applications

- IEEE 802.3ae Ethernet Transceivers
- 16G Fibre Channel Modules
- InfiniBand QDR and FDR Active Cables
- Proprietary optical modules

## Block Diagram



