General Description
The HXT8204 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
- 100G Ethernet SR4 modules
- 100G Ethernet AOC
- InfiniBand EDR transceivers
- InfiniBand EDR active cables
- Proprietary multi-channel optical modules

Features
- Low power consumption of 113mW 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 10 mA Average and 10 mA modulation current
- QSFP MSA compliant

Ordering Information

<table>
<thead>
<tr>
<th>Part</th>
<th>Temp Range</th>
<th>Pin-Package</th>
</tr>
</thead>
<tbody>
<tr>
<td>HXT8204-DNT</td>
<td>0°C to +85°C</td>
<td>Bare Die*</td>
</tr>
<tr>
<td>HXT8204-EVB</td>
<td>Room Temp</td>
<td>1.950mm x 1.575mm</td>
</tr>
</tbody>
</table>

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

For price, delivery schedules, and to place orders, please contact IDT: [www.IDT.com/go/sales](http://www.IDT.com/go/sales)

Device Diagram

![Device Diagram](Image)

Figure 1: Device diagram
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(Rev.1.0 Mar 2020)

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