# 56 Gbaud Octal-Channel, Linear Differential Modulator Driver

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
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<tbody>
<tr>
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## Features

- Supports baud rates up to 56 Gbaud
- Octal-channel modulator driver, 625 µm I/O pitch
- Differential input, differential output
- Wide external output termination range
- Output swing
- Integrated input AC capacitors
- I2C interface
- Adjustable gain
- Adjustable peaking
- Small signal bandwidth
- Low power consumption
- Low THD
- Available in die form

## Product Brief

**IN5628DZ** is a low power, octal-channel, differential modulator driver designed for 800G DR8/FR8 applications. It supports differential input voltages to deliver a differential output swing, while designed to drive flexible output termination loads. The IN5628DZ has low power consumption and is available in bare die. It supports baud rates up to 56 Gbaud, with features such as octal-channel modulator driver, 625 µm I/O pitch, differential input, differential output, wide external output termination range, output swing, integrated input AC capacitors, I2C interface, adjustable gain, adjustable peaking, small signal bandwidth, low power consumption, low THD, and availability in die form.