

112 Gbaud Quad-Channel Differential Mach-Zehnder Driver

Part No.

IN10026DZ

Product Type

Linear Driver

Market Segments

Inside Data Center

Applications

- 800G/DR4 and 1.6T DR8
- 400G coherent system

Features

- Supports baud rates up to 112 Gbaud
- High electrical bandwidth
- Adjustable gain with peaking control
- Wide differential electrical gain range
- Excellent THD
- Low power consumption
- Peak detector per channel
- SPI control interface
- Available in die form

Description

The IN10026DZ is a low power, quad-channel, differential Mach-Zehnder (MZ) modulator driver that is designed to support 800G/1.6T PAM4 optical modules and 400G coherent systems.

The IN10026DZ supports differential input voltages to deliver a differential output swing, while designed to drive flexible output termination loads.

The IN10026DZ also includes peak detectors and temperature monitoring circuits. The peak detector output and the temperature monitor reading can be read directly in the analog domain or in the digital domain via the SPI interface.

The IN10026DZ die size is 4 mm x 2 mm with wirebond interfaces.