Product Brief

128 Gbaud Quad-Channel Differential Output Mach-Zehnder Driver, Flip Chip

Part No.

IN12826FC

Product Type

Linear Driver

Market Segments

Inside Data Center

Applications

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

Features

- Supports baud rates up to 130 Gbaud
- High electrical bandwidth
- Wide differential electrical gain range
- Adjustable gain with peaking control
- Excellent THD
- Low power consumption
- Peak detector per channel
- SPI control interface
- Available in flip chip form

Description

The IN12826FC is a low power, quad-channel, differential Mach-Zehnder (MZ) modulator driver that is designed to support 800G/1.6T PAM4 optical module and 400G/800G coherent applications.

The IN12826FC supports differential input voltages to deliver a differential output swing, while designed to drive flexible output termination loads.

The IN12826FC 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 IN12826FC is available in flip chip form with a size of 4 mm x 2 mm and is intended to flip on the SiPho modulator.

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