

# 100 Gbaud Quad-Channel, Differential Mach-Zehnder Driver

**Part No.**

IN10026DZ

**Product Type**

Linear Drivers

**Market Segments**

Long Haul/Metro

**Applications**

Highly integrated 400G/600G coherent systems  
HB-CDM, COSA, IC-TROSA applications  
Direct drive SiPho and InP modulators

**Features**

- Supports baud rates up to 100 Gbaud
- High electrical bandwidth
- Adjustable gain with peaking control
- Wide differential electrical gain
- Excellent THD
- Low power consumption
- Peak detector per channel
- External modulation tone control pin
- 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 400G and 600G coherent metro applications.

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 is available in die form and is intended to be co-packaged with InP or SiPho MZ modulators.