

# 56 Gbaud Quad-Channel, Differential SiPho Mach-Zehnder Modulator Driver

**Part No.**

IN6424DZ

**Product Type**

Linear Drivers

**Market Segments**

Inside Data Centers

**Applications**400G DR4/FR4  
800G DR8/FR8**Features**

- Supports baud rates up to 56 Gbaud
- Differential outputs
- Differential AC-coupled inputs
- High electrical bandwidth
- Adjustable gain
- Low power consumption
- Peak detector per channel
- Excellent THD
- SPI control
- Available in die form

**Description**

The IN6424DZ is a low power, quad-channel, differential SiPho Mach Zehnder (MZ) modulator driver that is designed to support 400G and 800G PAM4 applications.

The IN6424DZ supports differential input voltages to deliver a differential output swing, while designed to drive flexible output termination loads.

The IN6424DZ includes peak detectors and temperature monitoring circuits. The peak detector output and the temperature monitor reading can be read via the SPI interface.

The IN6424DZ is available in die form.