

# 28 Gbaud Single-Channel, Linear Differential Input, Single-Ended Output EML Driver

**Part No.**

IN2831SZ

**Product Type**

Linear Drivers

**Market Segments**

Inside Data Centers

**Applications**50G/100G PTN  
50G/200G ER**Features**

- Supports baud rates up to 28 Gbaud
- Differential-ended inputs, single-ended linear outputs
- Adjustable gain
- Output swing
- Manual Gain Control (MGC)
- High bandwidth
- Excellent THD
- Peak detector outputs
- Low power consumption
- Thermal down
- L2 reliability GR468
- RoHS-compliant hybrid package with bias-T outputs
- Unconditionally stable and exempt of any spurious tones or oscillation either in-band or out-of-band

**Description**

The IN2831SZ is a 28 Gbaud single-channel linear differential input, single-ended output Externally Modulated Laser (EML) driver with SMT Interface for 50G/100G Package Transmission Network (PTN) applications.

The IN2831SZ has excellent THD, high bandwidth, adjustable gain, and includes an output peak detector function.

The IN2831SZ is available in an RoHS-compliant hybrid package with SMT interface, high-speed bias-T at the output, and EML DC bias-T inside package.