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.

To deliver the data infrastructure technology that connects the world, we’re building solutions on the most powerful foundation: our partnerships with our customers. Trusted by the world’s leading technology companies for 25 years, we move, store, process and secure the world’s data with semiconductor solutions designed for our customers’ current needs and future ambitions. Through a process of deep collaboration and transparency, we’re ultimately changing the way tomorrow’s enterprise, cloud, automotive, and carrier architectures transform—for the better.

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