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

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## Description
The IN5630SE is a 56 Gbaud single-channel, linear differential input, single-ended output driver for 400G FR4/LR4 PAM applications.

The IN5630SE has excellent THD, high bandwidth, adjustable gain control, and includes an output peak-detector function.

The IN5630SE is available in die form.

## Features
- Supports baud rates up to 56 Gbaud
- Differential-ended inputs, single-ended linear output
- Adjustable gain
- Linear output swing
- Manual Gain Control (MGC)
- High electrical bandwidth
- Excellent THD
- Peak detector outputs
- Low power consumption
- Unconditionally stable and exempt of any spurious tones or oscillation either in-band or out-of-band