General Description

The GX62476 is a very low-power, high-performance, quad-channel linear driver, designed for 100G and 200G optical transmitters for metro applications. The GX62476 is a small form factor (SFF) packaged surface mount device (SMD) with differential inputs and single-ended outputs consisting of 4 x 32Gb/s broadband amplifier channels, including high-frequency chokes, each capable of driving a linear output voltage of 5Vpp, suitable for multi-level modulation applications.

Device Diagram

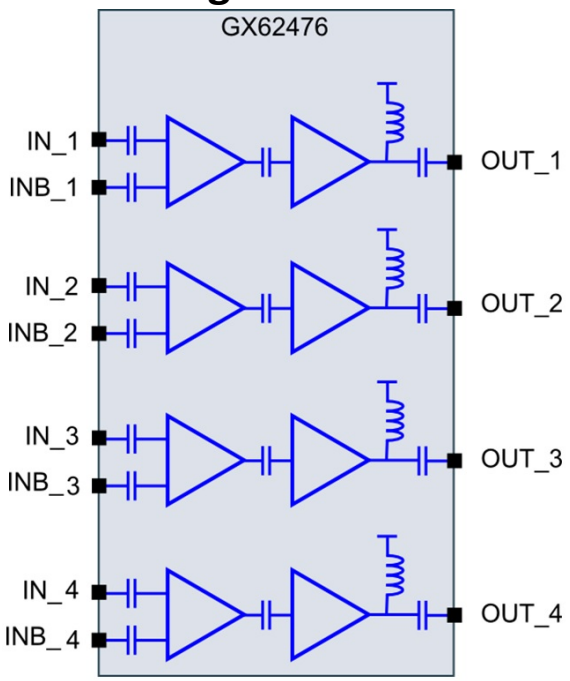

Figure 1: Device diagram

Applications

- 100Gb/s systems using DP-QPSK
- 200Gb/s & 400Gb/s advanced multi-level modulation systems

Features

- Data rate up to 32Gb/s per channel for 100G/200G/400G DP-QPSK applications
- Linear single-ended output voltage up to 5Vpp
- 15dB dynamic range of gain control
- 1.1 W (typ.) P_D/channel @ linear 5 V_{pp}
  0.75 W (typ.) P_D/channel @ linear 3 V_{pp}
- Ultra-low inter-channel cross-talk
- Small form factor SMD
- Internal high-frequency supply chokes
- Internally DC-blocked RF inputs and outputs
- Peak detector & reference voltage

Ordering Information

Part	Temperature Range	Package
GX62476-HIU	-5°C to +85°C	SMD 10mm x 14mm

For price, delivery schedules, and to place orders, please contact IDT: www.IDT.com/go/sales

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