

GX76476-F

4 x 64Gbit/s Linear Differential I/O Driver

The GX76476-F is a low-power, high-performance, quad-channel linear flip-chip driver. It is designed for 400G/600G optical integrated transmitter small form factor (SFF) modules for metro and long haul applications.

The GX76476-F integrates four driver channels with SPI circuitry for DC controls on a single die. Each driver channel has AC coupled 100Ω differential inputs and DC-coupled 60Ω differential outputs with open collector configuration, and linear output voltage of 4.0Vppd suitable for Silicon Photonics modulators and multi-level modulations.

Applications

- 400/600Gbps 16QAM/64QAM advanced multi-level modulation systems
- High bandwidth SFF optical integrated modules

Features

- Data rate up to 64Gbps per channel for 400G/600G DP-mQAM applications
- > 65GHz Bandwidth
- > 10dB dynamic range of gain control
- 2.7W (typical) at linear 4.0Vppd
- AC-coupled 100Ω differential inputs
- DC-coupled 60Ω differential outputs with open-collector configuration
- Ultra-low inter-channel cross-talk
- Peaking adjustment functionality
- Analog control for gain and output voltage setting, and analog monitor for peak detector and gain control monitor
- OIF compliant SPI digital interface integration

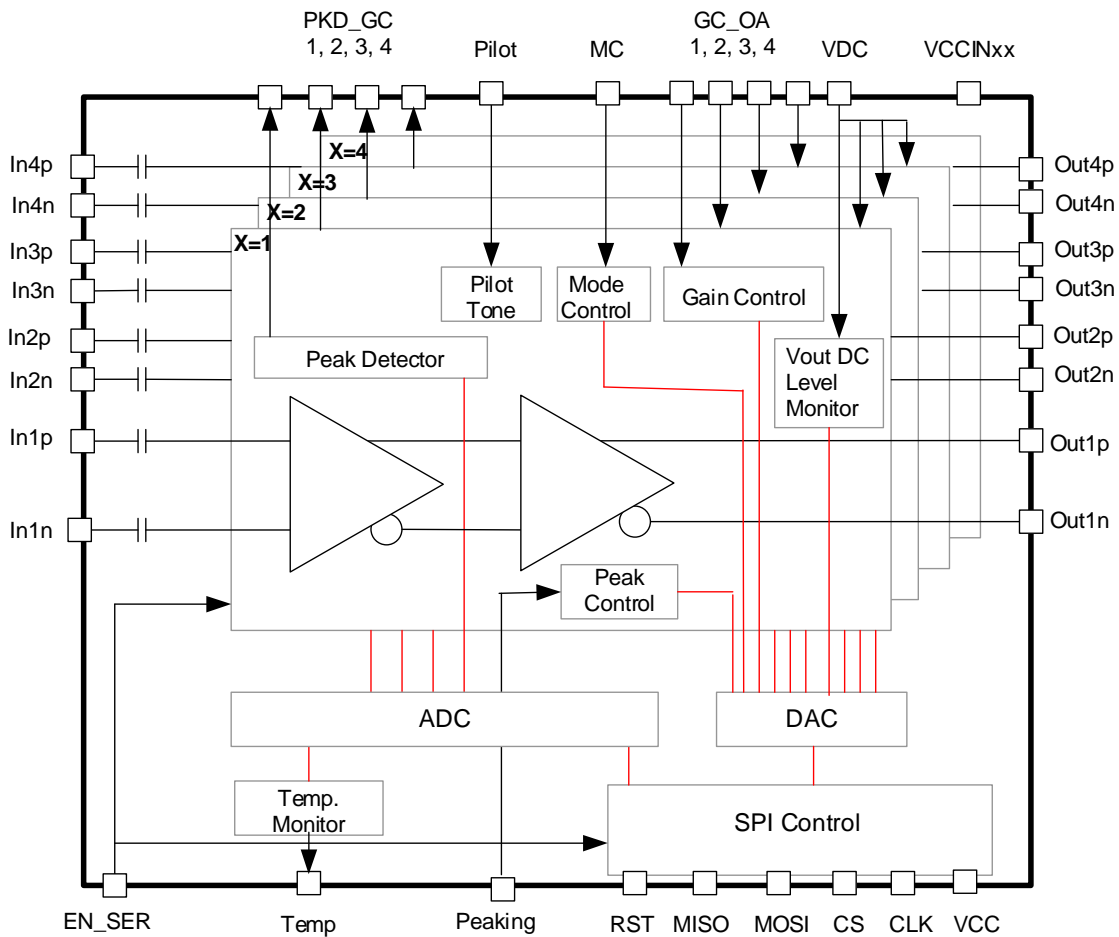


Figure 1. Block Diagram

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