Description

The GX32222 is a dual 32Gb/s linear Trans-Impedance Amplifier (TIA) for 100G/200G Integrate Coherent Receivers (ICRs).

The GX32222 integrates two TIA signal paths for I and Q channels. The high-performance, low power, and compact design of the GX32222 also enables small form factor integrated optical module such as CFP2 and CFP4.

Applications

- 100G/200G coherent systems with 32Gbit/s DP-QPSK/16QAM modulation format
- Integrated optical modules for CFP/CFP2 form factors

Features

- Data rate: 28Gbaud/s to 32Gbaud/s with bandwidth adjustability
- Differential gain: 6,500Ω typ.
- Bandwidth: 25GHz min.
- Low power consumption of 180mA max.
- Linear gain over 30dB of dynamic range
- Internal AGC
- Output voltage control
- Peak detection
- Shutdown mode

Ordering Information

Part	Temp Range	Pin-Package
GX32222-DNT	-5°C to +95°C	Die 1.562mm x 1.387mm

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

Device Diagram

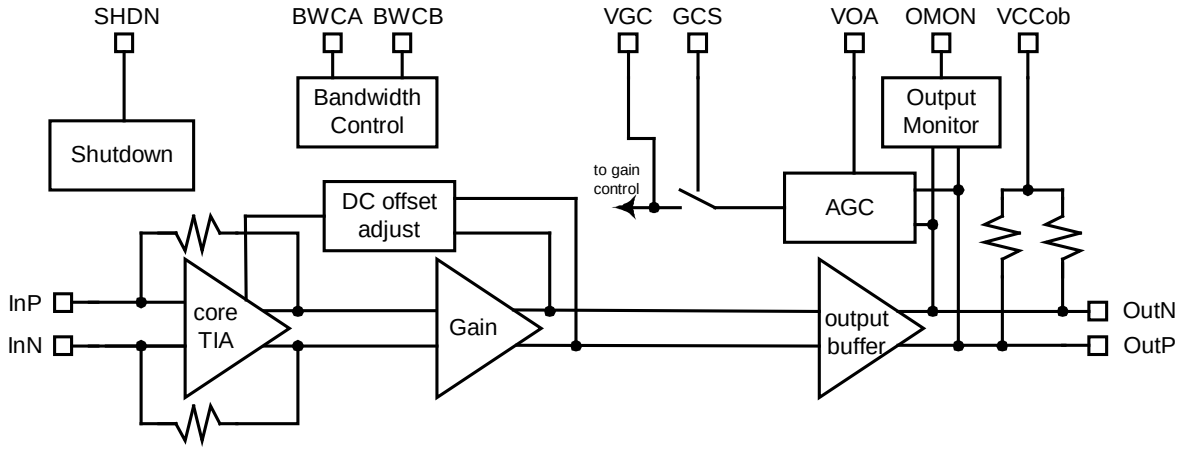

Figure 1: Device diagram (single channel)

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Corporate Headquarters

TOYOSU FORESIA, 3-2-24 Toyosu,
Koto-ku, Tokyo 135-0061, Japan
www.renesas.com

Contact Information

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