## 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<br>1.562mm x 1.387mm |

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

## Device Diagram

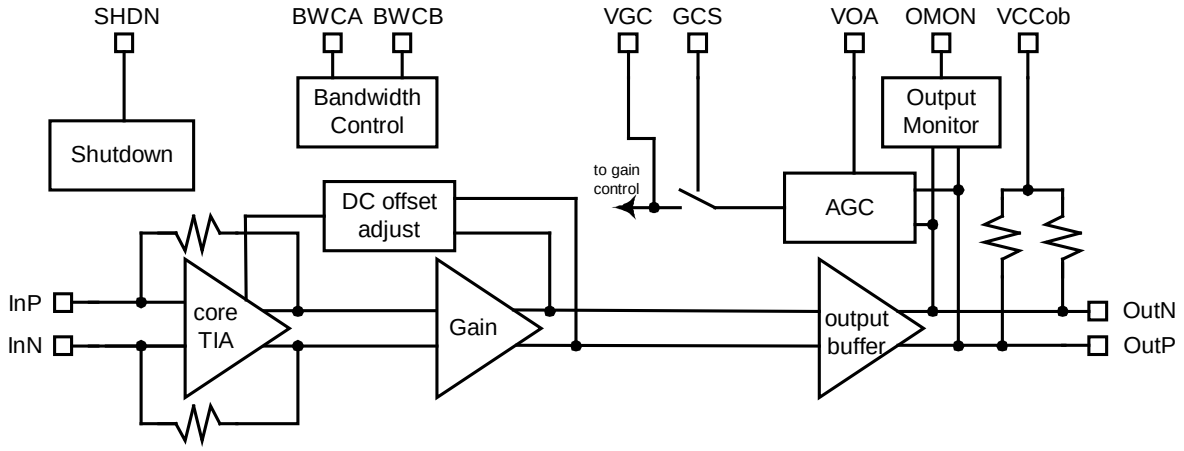



**Figure 1: Device diagram (single channel)**