

Semtech GN1057

10/11.3 Gb/s Transimpedance Amplifier with Automatic Gain Control

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Overview

Gennum's GN1057 is a fully integrated silicon germanium (SiGe) BiCMOS transimpedance amplifier, providing wideband low noise pre-amplification of a current signal from a PIN photodiode or APD.

It features differential outputs and incorporates automatic gain control (AGC) to improve linear dynamic range. A decoupling capacitor on the supply is the only external component required.

Features

- Single +3.3V power supply
- Power dissipation 190mW (typical)
- Bandwidth remains constant over dynamic range
- Typical small signal gain of 4 k Ω
- RSSI (Receive Signal Strength Indicator)
- Operates from 9.95Gb/s to 11.3 Gb/s NRZ

Applications

- ITU/IEEE-based transmission systems, test equipment and modules including 10GBASE-LRM
- OC-192 fibre optic modules and line termination
- 10 Gigabit Ethernet
- Fibre Channel
- Serial data systems up to 11.3 Gb/s

Order Codes

Part No	Package
GN1057CW-CHIP	Waffle Pack (400pcs)

