

Semtech GN1055

10/11.3 Gb/s Limiting Transimpedance Amplifier with Slicing Adjust

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Overview

Gennum's GN1055 is a fully integrated silicon germanium (SiGe) BiCMOS transimpedance amplifier, providing wideband, low noise pre-amplification of a current from a PIN photodiode or APD.

It features differential outputs. A decoupling capacitor on the supply is the only external component required.

Features

- Single +3.3 V power supply
- Power dissipation = 145 mW (typical)
- Transimpedance gain = 4 k Ω into 100 Ω load (diff)
- Upper Bandwidth (-3dB) = 12GHz
- Operates at OC-192 / STM-64 up to 11.3 Gb/s NRZ rates
- RSSI (Receive Signal Strength Indicator)
- User adjustable Input Slicing Level.
- Can be used with APD
- Minimal external components; supply decoupling only
- Operating junction temperature range = -40° to +125°C

Applications

- SONET/SDH-based transmission systems, test equipment and modules
- 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
GN1055CW-CHIP	Waffle Pack (400pcs)

