

## Semtech GN1032

2.5Gb/s Transimpedance Amplifier with Automatic Gain Control

### Overview

Gennum's GN1032W is a fully integrated, silicon germanium transimpedance amplifier; providing wideband, low noise pre-amplification of signal current from a photodetector.

It features differential outputs, and incorporates an automatic gain control mechanism to increase dynamic range, allowing input signals up to 2.6 mA peak. A decoupling capacitor on the supply is the only external circuitry required.

### Features

- Single +3.3 V power supply
- Power dissipation = 145 mW (typ)
- Input noise current = 250 nA rms
- Transimpedance gain = 3.6 k $\Omega$  into a 100 $\Omega$  load (differential)
- 100 $\Omega$  (differential) outputs
- Bandwidth (-3 dB) = 2.05 GHz
- Wide data rate range = 155 Mb/s to 2.5 Gb/s
- Operating junction temperature range = -40°C to +125°C

### Applications

- SONET/SDH-based transmission systems, test equipment and modules
- OC-48 fibre optic modules and line termination
- ATM over SONET/SDH
- Gigabit Ethernet
- 2x Fibre Channel

### Order Codes

Part No	Package
GN1032W-CHIP	Waffle Pack (400pcs)
GN1032W-COT	Reel (4800pcs)



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