9.95 - 11.3Gb/s Equalizer plus Clock and Data Recovery

## ▶ GN2023

9.95 - 11.3Gb/s Limiting Amplifier plus Clock and Data Recovery

#### MGN2017

Dual 14G CDR with integrated VCSEL driver and limiting amplifier

#### MGN2014A

XFP Tx Signal Conditioner with VCSEL Driver

## MGN2013A

Limiting Amplifier plus Clock and Data Recovery IC with Manual Slice Level Adjust



- Automatic locking from 9.95Gb/s to 11.3Gb/s
- Automatic rate detect for quarter rate (2.5Gb/s) and half rate (5Gb/s) modes
- Re-timer bypass up to 11.3Gb/s
- No reference clock required
- Integrated limiting amplifier, with 10mV to 1600mV differential input voltage range
- Programmable output, with 400mV to 800mV differential output voltage range
- Independent channel operation
- De-emphasis to compensate up to 28dB of loss
- Polarity inversion
- I2C control interface
- Automatically loads configuration data from E2PROM
- Loss of signal detect with adjustable threshold
- Low power dissipation
- Single 3.3V supply
- 7x7mm, 48-pin QFN package

# Applications

- Active Copper Cable assemblies and optical modules for:
  - ▶ Infiniband® SDR/DDR/QDR
  - ▶ 40Gb/s and 100Gb/s Ethernet
- ▶ Re-timer on line card for:
  - QSFP modules
  - Parallel optical modules
  - ▶ SFP+ modules
- 10Gb/s serial backplane retimer

## Order Codes

Part No. Package

GN2406-INE3 48 pin QFN

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