



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



## Semtech GN7152

Multi-Rate CDR with EML Driver

The GN7152 is an integrated CDR and EML laser driver for PON OLT, 10GBase-ER/ZR Ethernet and 8.5Gb/s Fibre Channel applications. It is a highly-integrated, low-power, small-footprint device, that is ideal for small form factor optical modules.

The GN7152 includes optional input equalization, a multi-rate CDR and an EML laser driver. The GN7152 offers a highly-configurable eye shaping feature, including independently programmable rise and fall pre-emphasis, which allows for an optimal electrical and optical output. The GN7152 also offers the option for polarity-invert and output mute.

### Features

- CDR with 8.5Gb/s, 9.95 to 11.3Gb/s, and 10.3 to 11.7Gb/s reference-free operation
- Integrated laser bias and driver for electro-absorption modulators (EAMs) and modulated lasers (EMLs)
- Differential input amplitudes as small as 120mVppd
- Digital control through I2C or SPI interface
- Programmable jitter transfer bandwidth
- On-chip Automatic Power Control (APC) loop
- Polarity invert and output mute available
- Programmable output pre-emphasis
- Mission-mode eye monitor
- PRBS Generator and Checker
- Programmable input equalization
- Programmable LOS with adjustable threshold and hysteresis
- Programmable sampling phase adjust
- Programmable fault signalling
- Integrated analog to digital converter, which provides access to digital diagnostic information on supply voltage, die temperature, and transmit optical power
- Single 3.3V supply (+5%/-10%)
- Power dissipation:
  - 730mW typical, with 1.9Vpp single-ended modulation voltage and 90mA bias current
- Integrated laser safety features
- 5x5 32-pin QFN package
- 40°C to 95°C case operation



### Applications

- PON OLT transceivers
- XFP & SFP+ 10GBase-ER/ZR optical transceivers
- XFP & SFP+ extended-reach 8.5 Gb/s Fibre Channel

## Order Codes

GN7152-INE3: 32-pin QFN

GN7152-INTE3D: 32-pin QFN (500pc tape and reel)

### About Semtech

[Company Overview](#)  
[Management](#)  
[Investors](#)  
[Careers](#)  
[Worldwide Locations](#)

### Media Center

[Product Announcements](#)  
[Business Announcements](#)  
[Upcoming Events](#)  
[Graphics / Collateral](#)  
[Newsletter](#)

### Sites / Access

[mySemtech](#)  
[m.semtech.com \(Mobile\)](#)  
[C-SIM Design Simulation](#)  
[Partner Portal](#)  
[Site Map](#)

### Connect With Us

[Contact Us](#)  
[Sign Up for Newsletter](#)  
[Leave Website Feedback](#)

Follow:   

Semtech is a Leading Analog & Mixed Signal Products Company

[Privacy Policy](#) | [Terms of Use](#) | [CA Transparency in Supply Chains Act](#)

©2015 Semtech Corporation. All rights reserved.