



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



### Features

- Two independent clock channels
- Two programmable digital PLLs/Numerically Controlled Oscillators (NCOs)
- Four precision synthesizers generate any clock-rate from 1 Hz to 750 MHz with low jitter for 10 G PHYs
- Programmable digital PLLs synchronize to any clock rate from 1 kHz to 750 MHz
- Automatic hitless reference switching and digital holdover on reference fail
- Nine input references configurable as single ended or differential and two single ended input references
- Phase alignment to input 1 Hz frame pulse with associated reference clock (ref/sync pairing)
  - Any input reference can be fed with sync (frame pulse) or clock
- Digital PLLs filter jitter at 5.2 Hz, 14 Hz, 28 Hz, 56 Hz, 112 Hz, 224 Hz, 448 Hz or 896 Hz

### Ordering Information

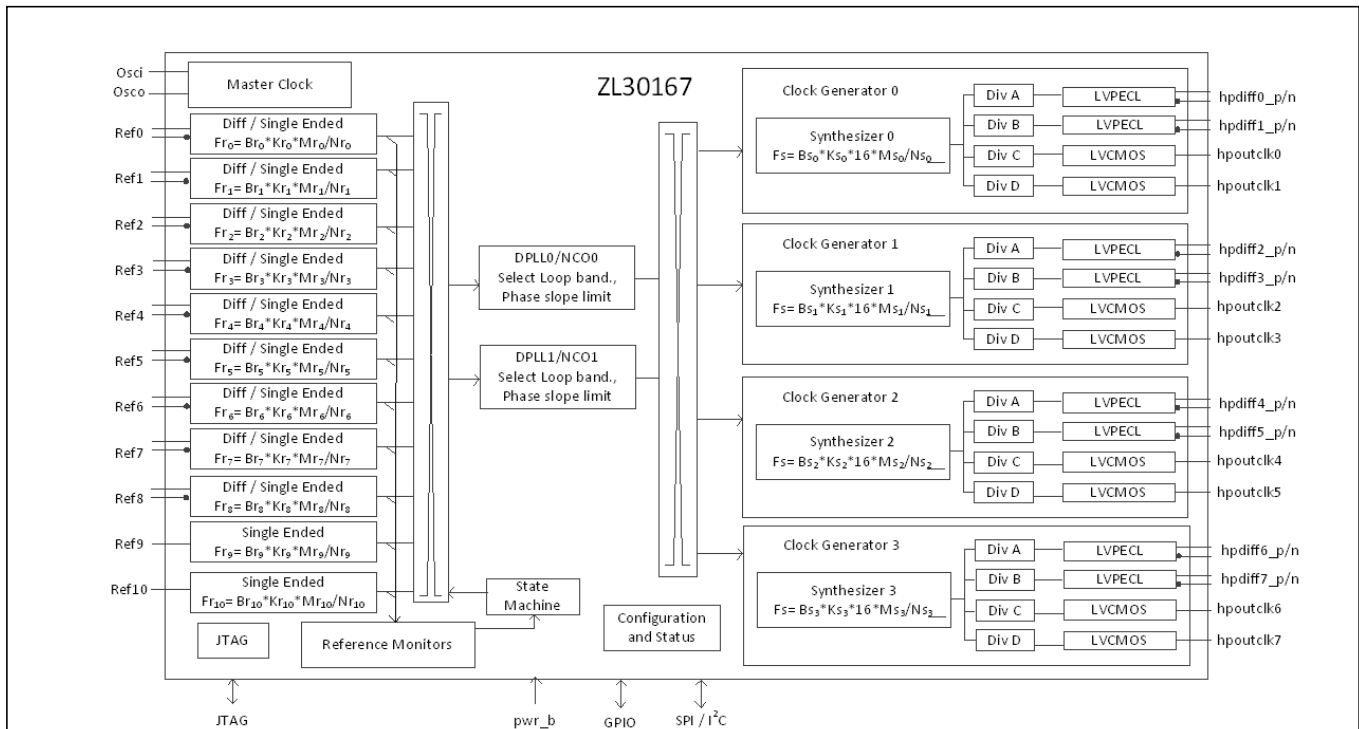
ZL30167GDG2 144 Pin LPGA Trays

Pb Free Tin/Silver/Copper  
**-40°C to +85°C**  
 Package Size: 13 x 13 mm

- Eight LVPECL outputs and eight LVCMOS outputs
- Operates from a single crystal resonator or clock oscillator
- Flexible two-stage architecture translates between arbitrary data rates, line coding rates and FEC rates
- Field programmable via SPI/I<sup>2</sup>C interface

### Applications

- OTN muxponders and transponders
- 10 Gigabit line cards
- Synchronous Ethernet, 10 GBASE-R and 10 GBASE-W
- SONET/SDH, Fibre Channel, XAUI



**Figure 1 - Functional Block Diagram**



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