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

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ZL30168

Enhanced Quad Clock Translator

Short Form Data Sheet

January 2014

Features

- Four independent clock channels
- Programmable synthesizers generate any clock-rate from 1 Hz to 750 MHz
- Four precision synthesizers generate clocks with maximum jitter below 0.63 ps RMS
- Four programmable digital PLLs/Numerically Controlled Oscillators (NCOs)/OTN clock generators based on buffer-fill levels
  - Programmable digital PLLs synchronize to any clock rate from 1 kHz to 750 MHz
  - Flexible two-stage architecture translates between arbitrary data rates, line coding rates and FEC rates
  - Digital PLLs filter jitter with bandwidths from 5 to 896 Hz
  - Automatic hitless reference switching and digital holdover on reference fail
- Eight reference inputs configurable as single ended or differential
- Eight LVPECL outputs and eight LVCMOS outputs
- Operates from a single crystal resonator or clock oscillator
- Configurable via four selectable default configurations or field programmable via SPI/I2C interface

Ordering Information

ZL30168GDG2 144 Pin LBGA Trays
Pb Free Tin/Silver/Copper
-40°C to +85°C
Package size: 13 x 13 mm

Applications

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

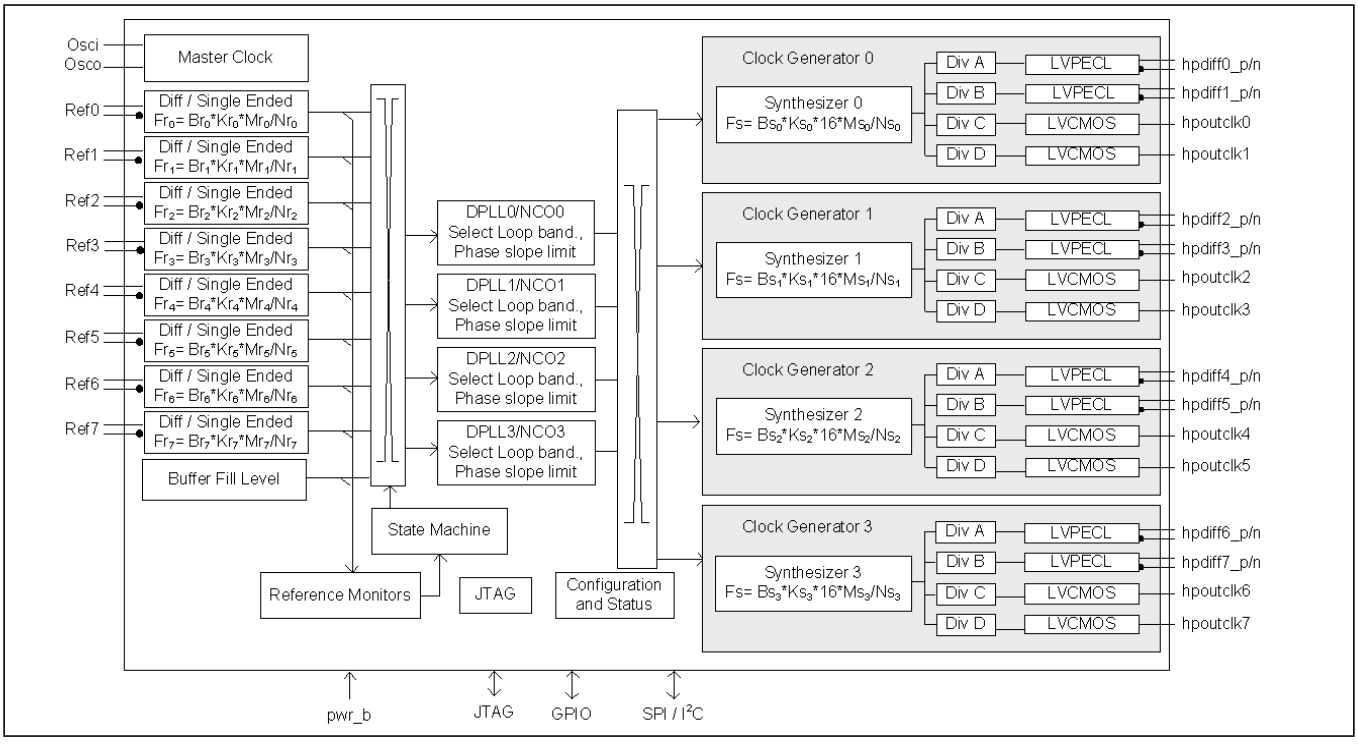

Figure 1 - Functional Block Diagram

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