



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!



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Features

- Fully compliant SEC (G.813), EEC (G.8262) and Stratum 3E flexible rate conversion DPLL
- Three programmable digital PLLs/Numerically Controlled Oscillators (NCOs)
- Synchronize to any clock rate from 1 Hz to 750 MHz
- Four programmable synthesizers generate any clock rate from 1 Hz to 750 MHz with low jitter for 10G PHYs
- Flexible two-stage architecture translates between arbitrary data rates, line coding rates and FEC rates
- Digital PLLs filter jitter from 0.1 mHz up to 1 kHz
- 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
- Any input reference can be fed with sync (frame pulse) or clock

Ordering Information

ZL30164GDG2 144 Pin LBGAs Trays

Pb Free Tin/Silver/Copper

-40°C to +85°C

Package Size: 13 x 13 mm

- Programmable DPLLs can synchronize to sync pulse and sync pulse/clock pair
- Eight LVPECL outputs and eight LVCMOS outputs
- Operates from a single crystal resonator or clock oscillator
- Field programmable via SPI/I²C interface

Applications

- SyncE/SONET/SDH Timing Cards
- Synchronous Ethernet, 10 GBASE-R and 10 GBASE-W
- SONET/SDH, Fibre Channel, XAUI

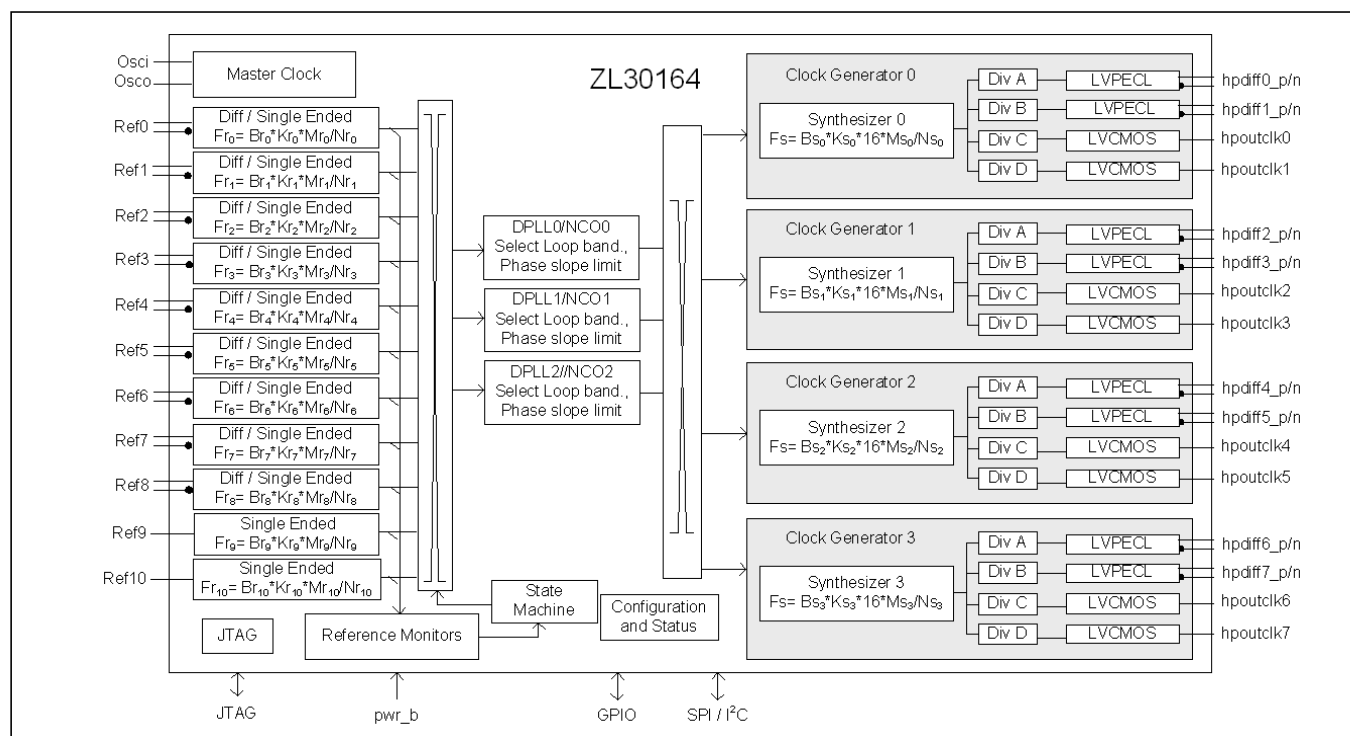


Figure 1 - Functional Block Diagram



**For more information about all Microsemi products
visit our Web Site at**

www.microsemi.com/timing-and-synchronization

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