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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.

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ZL30159 General Purpose Clock Rate Converter

Short Form Data Sheet

March 2013

Features

- Precision synthesizer generates any clock-rate from 1 Hz to 177.5 MHz with jitter below 1ps
- Programmable digital PLL synchronize to any clock rate from 1 Hz (1 pps) to 750 MHz
- Input reference configurable as single ended LVCMOS (up to 177.5 MHz) or differential LVPECL (up to 750 MHz)
- Flexible two-stage architecture translates between arbitrary data rates, line coding rates and FEC rates
- Programmable Digital PLL loop filter: 30 MHz, 14 Hz, 28 Hz, 56 Hz, 112 Hz, 224 Hz, 448 Hz or 896 Hz
- Two LVCMOS outputs —from 1 Hz (1 pps) to 177.5 MHz

Ordering Information

ZL30159GGG2 64 Pin LBGA* Trays

*Pb Free Tin/Silver/Copper -40°C to +85°C

- Operates from a single crystal resonator or clock oscillator
- Configurable via SPI/I2C interface

Applications

- General purpose clock rate translator
- · GPS receiver clock synthesizer

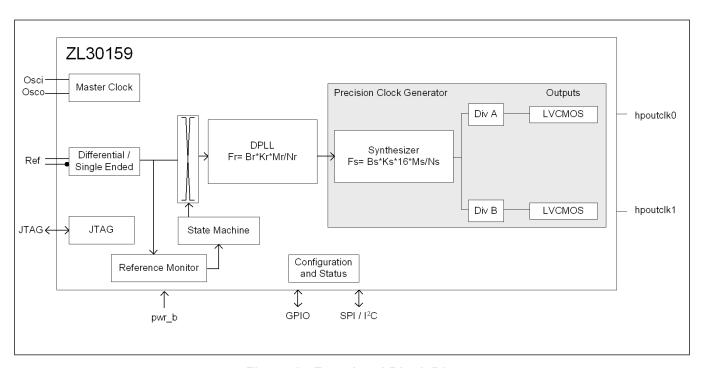
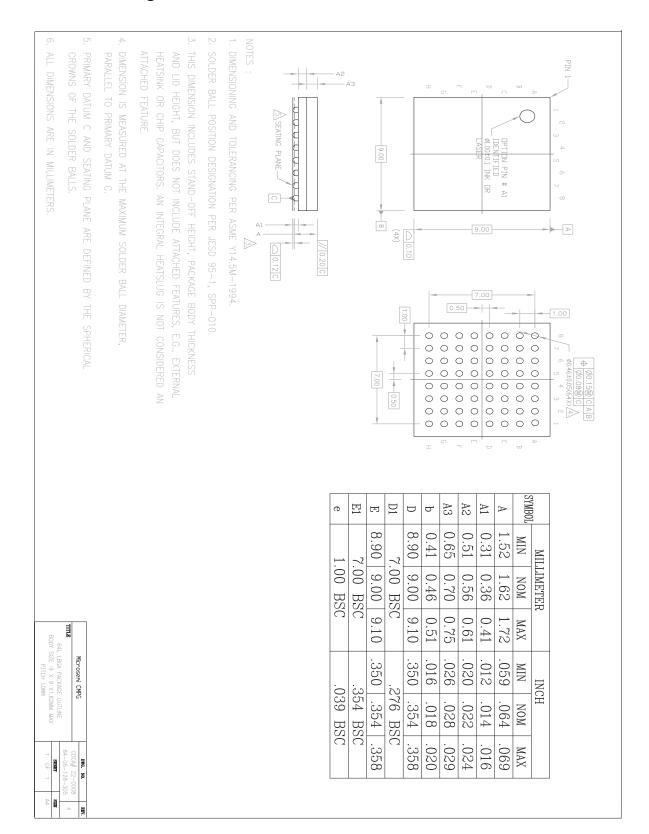


Figure 1 - Functional Block Diagram



Mechanical Drawing



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