

## Features

- Generates clock signals at power-up per user defined custom OTP (One Time Programmable) configuration
- Dynamically configurable via SPI/I2C interface and volatile configuration registers
- Two independently programmable clock generators output any clock rate from 1 kHz to 750 MHz
- Precision clock generators output clocks with jitter below 0.7 ps RMS for 10 G PHYs
- Operates from a single crystal resonator, clock oscillator or voltage controlled oscillator
- Supports programmable frequency offsets for clock margining; or for use as a digitally controlled oscillator
- Eight LVPECL outputs; max rate 750 MHz
- Four LVCMOS outputs; max rate 177.5 MHz

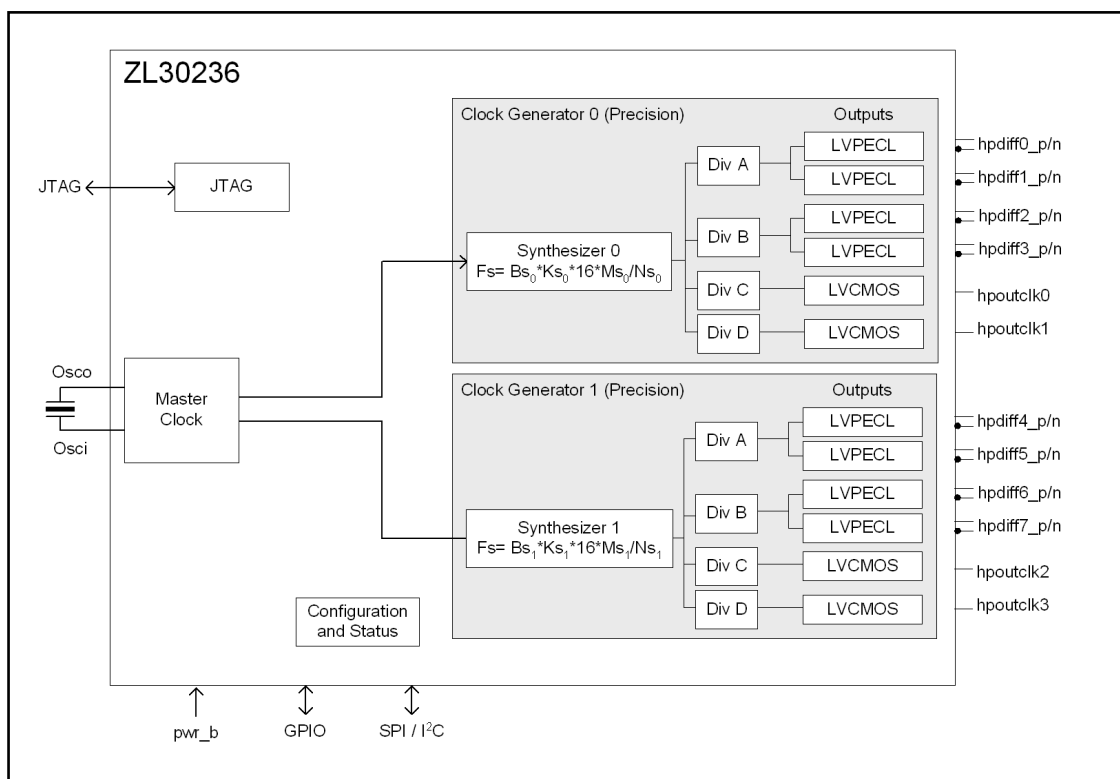
## Ordering Information

|             |               |           |       |
|-------------|---------------|-----------|-------|
| ZL30236GGG  | 100 Pin LBGA  | 11mmx11mm | Trays |
| ZL30236GGG2 | 100 Pin LBGA* | 11mmx11mm | Trays |

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

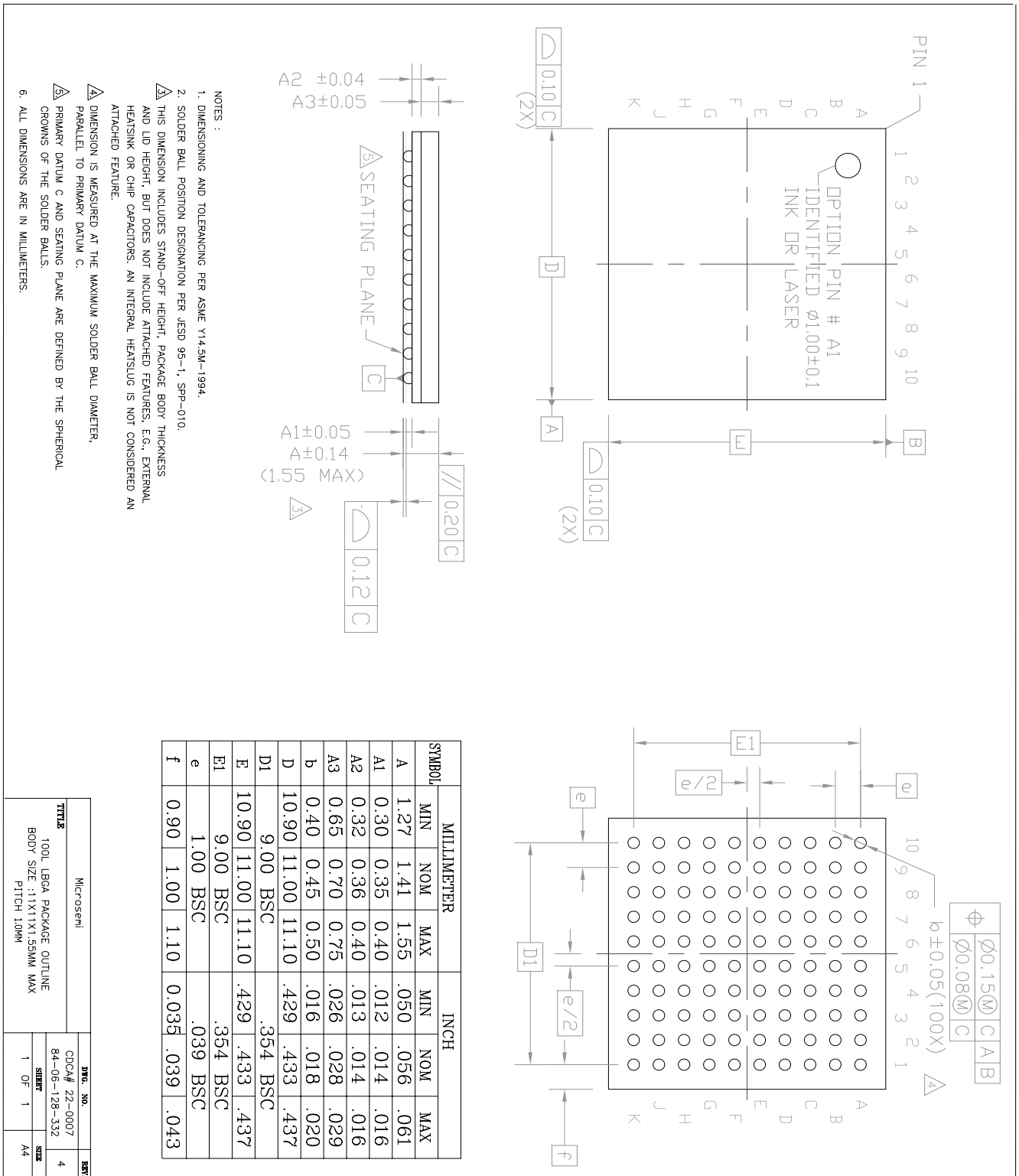
## Applications

- Timing for NPUs, FPGAs, Ethernet switches and PCIe switches
- Timing for 10 Gigabit CDRs, Rapid-IO, PCIe, Serial MII, Star Fabric, Fibre Channel, XAUI
- Processor clock, Processor bus clock, SDRAM clock, DDR clock



**Figure 1 - Functional Block Diagram**

## Mechanical Drawing



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