

Features

- Generates clock signals at power-up per user defined custom OTP (One Time Programmable) configuration
- Operates from a single crystal resonator, clock oscillator or voltage controlled oscillator
- Two independently programmable clock synthesizers generate any clock rate from 1 kHz to 720 MHz
- Precision synthesizers generate clocks with jitter below 0.7 ps RMS for 10 G PHYs
- Supports programmable frequency offsets for clock margining; or for use as a digitally controlled oscillator
- Eight LVPECL outputs; max rate 720 MHz
- Four LVCMOS outputs; max rate 177.5 MHz
- Dynamically Configurable via SPI/I2C interface

Ordering Information

ZL30236GGG	100 LPGA	11mmx11mm Trays
ZL30236GGG2	100 LPGA*	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

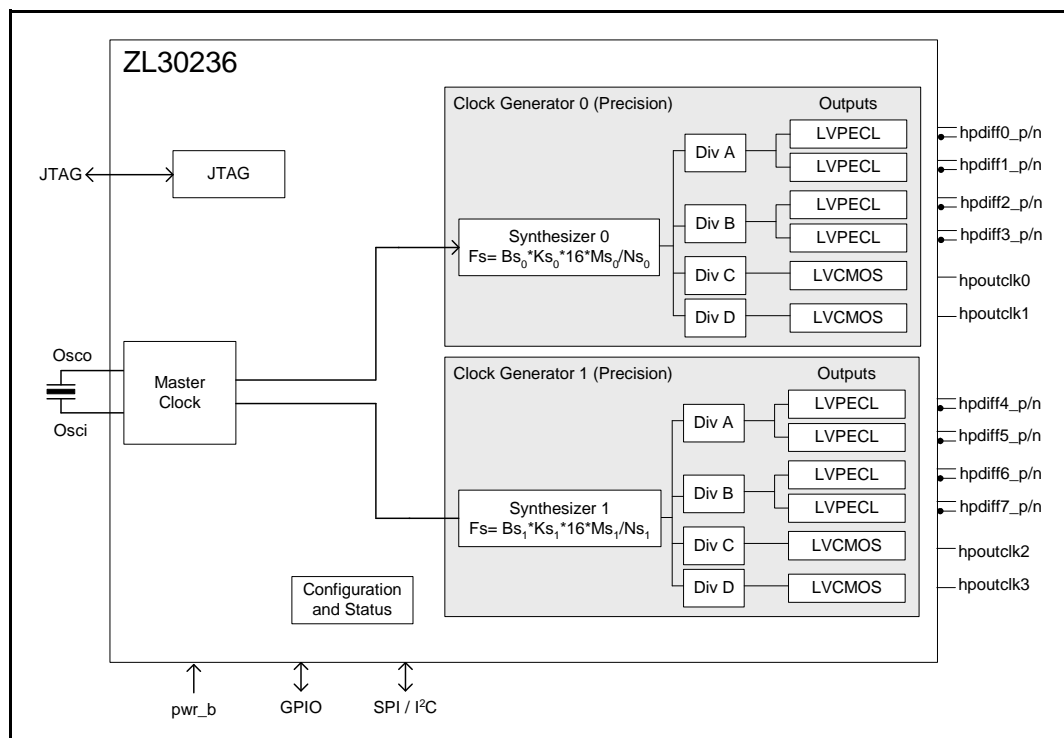


Figure 1 - Functional Block Diagram

Description

The ZL30236 Dual Channel Universal Clock Generator, part of Zarlink's ClockCenter platform of Free Run Clock devices, delivers industry leading performance for a range of free run applications. The free run synchronization solution allows designers to replace multiple, costly components with a highly integrated and programmable, singlechip solution.

The ZL30236 device generates up to 12 clocks from a single crystal, allowing designers to replace numerous oscillators traditionally used to provide timing for various components with one chip.

Change Summary

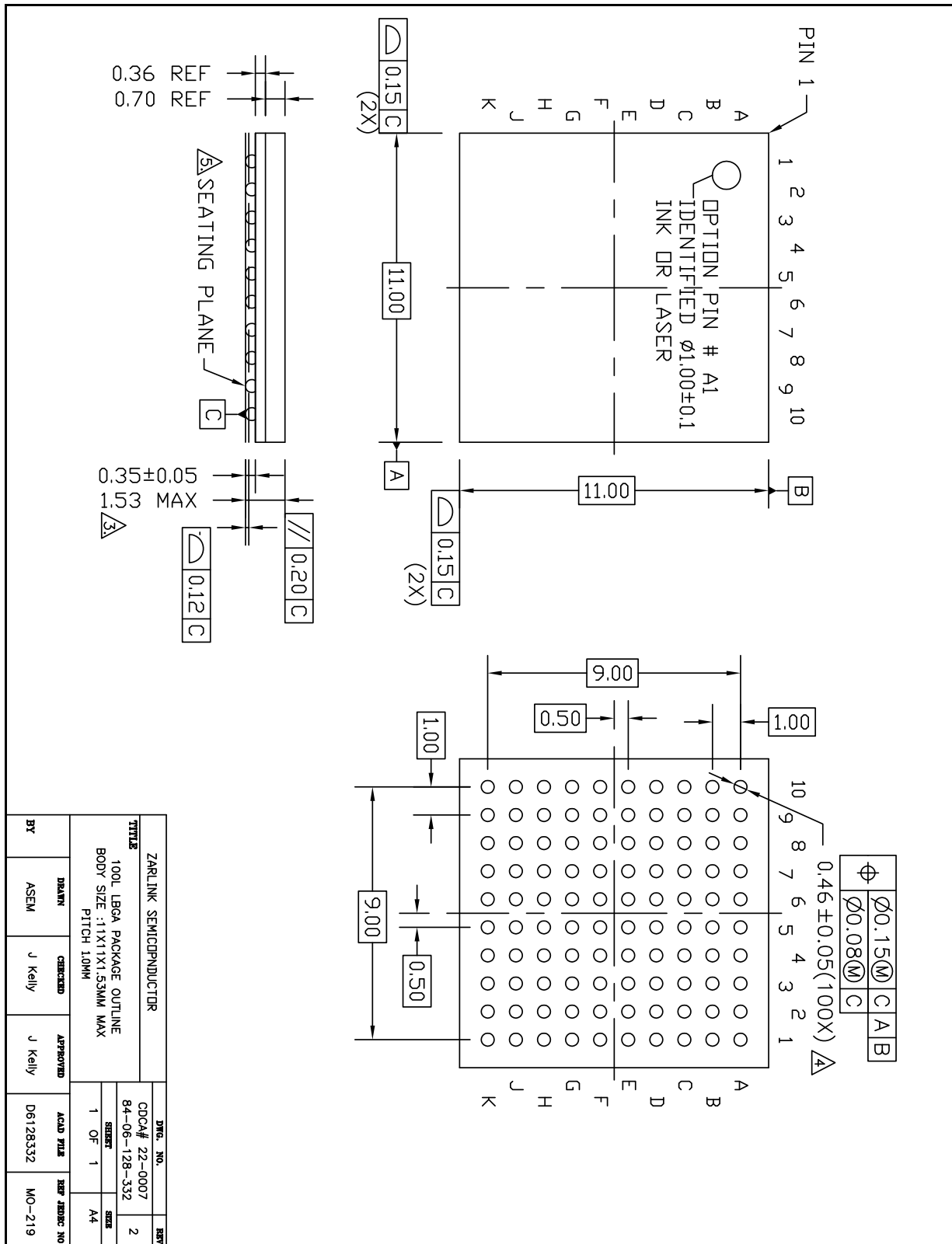
Below are the changes from the June 2011 issue to the July 2011 issue.

Page	Item	Change
1	Features	Added OTP feature.

Below are the changes from the January 2011 issue to the June 2011 issue.

Page	Item	Change
1	Ordering Information	Corrected package description in ordering information to LBGA.
3	Mechanical Drawing	Replaced drawing to reflect correct package description.

Mechanical Drawing





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