



**THE DATASHEET OF
ZL30154GGG2**



Features

- Supports requirements of ITU-T G.8262 for Synchronous Ethernet Equipment Slave Clocks (EEC option 1 and 2)
- Supports requirements of Telcordia GR-1244 Stratum 3 and GR-253, ITU-T G.813, and G.781 SETS
- Supports ITU-T G.823, G.824 and G.8261 for 2048 kbit/s and 1544 kbit/s interfaces
- Programmable synthesizers generate any clock-rate from 1 Hz to 750 MHz
- Two precision synthesizers generate clocks with jitter below 0.7 ps RMS for 10 G PHYs
- Two general purpose synthesizers generate a wide range of digital bus clocks
- Programmable digital PLLs synchronize to any clock rate from 1 Hz to 750 MHz
- Flexible two-stage architecture translates between arbitrary data rates, line coding rates and FEC rates

Ordering Information

ZL30154GGG	100 Pin LBGA	Trays
ZL30154GGG2	100 Pin LBGA*	Trays

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

- Digital PLLs filter jitter from 0.1 mHz, 1 mHz, 10 mHz, 0.1 Hz, 1.7 Hz, 3.6 Hz, 7 Hz, 14 Hz, 28 Hz, 56 Hz, 112 Hz, 224 Hz, 448 Hz or 896 Hz
- Automatic hitless reference switching and digital holdover on reference fail
- Four reference inputs configurable as single ended or differential
- Eight LVPECL outputs and four LVCMOS outputs
- Eight outputs configurable as LVCMOS or LVDS/LVPECL/HCSL
- Operates from a single crystal resonator or clock oscillator
- Configurable via SPI/I2C interface

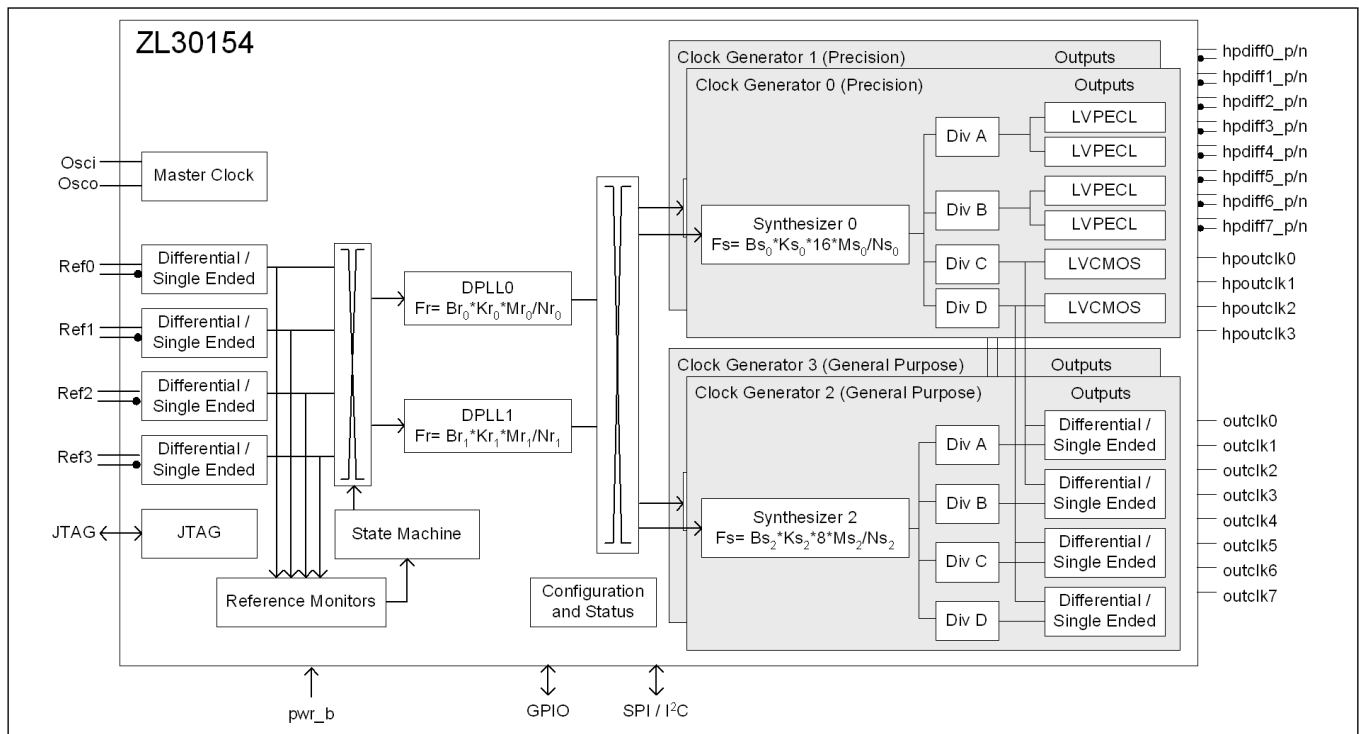
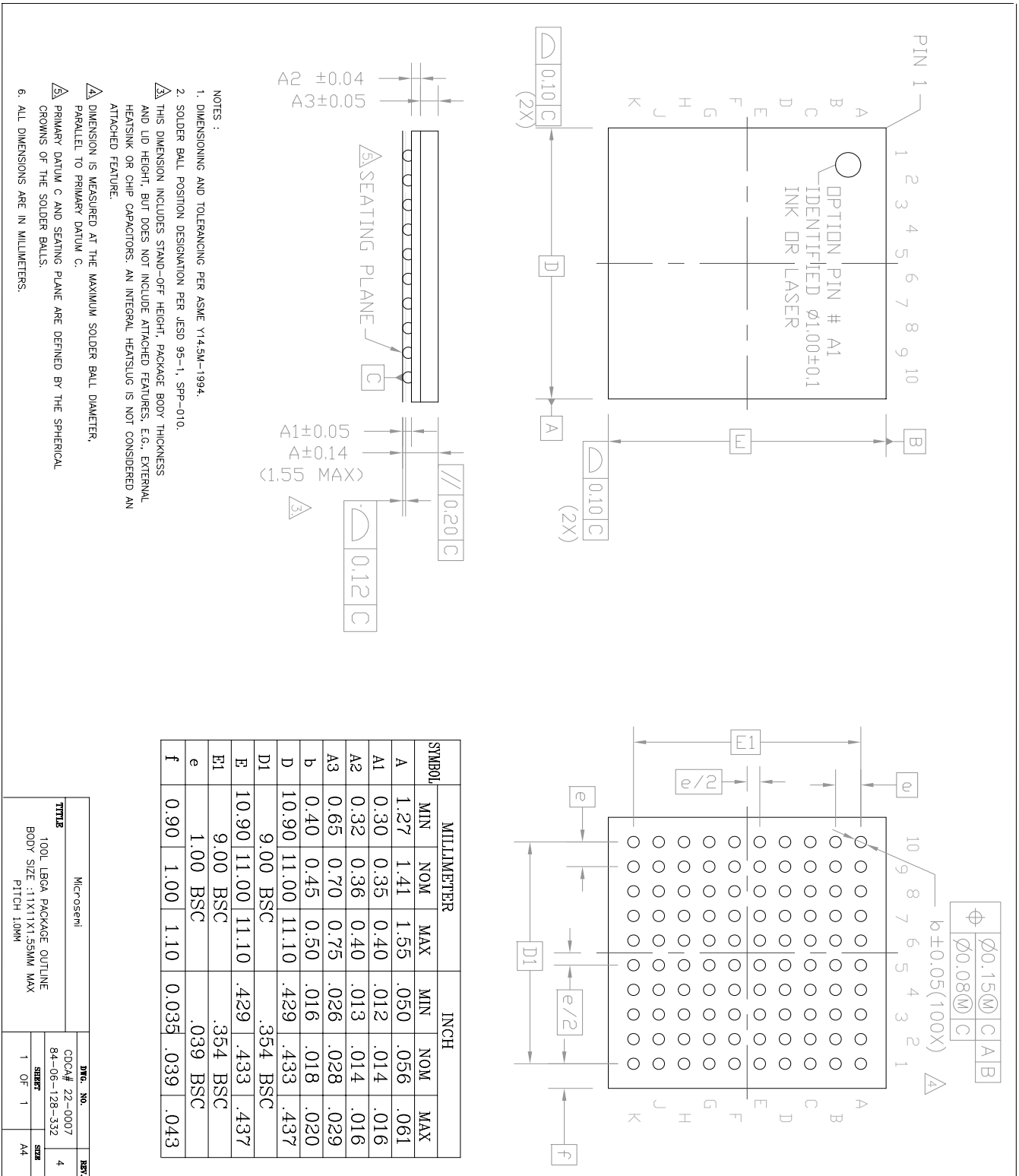


Figure 1 - Functional Block Diagram

Applications

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

Mechanical Drawing



- NOTES :
1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1994.
 2. SOLDER BALL POSITION DESIGNATION PER JEDEC 95-1, SPP-010.
 3. THIS DIMENSION INCLUDES STAND-OFF HEIGHT, PACKAGE BODY THICKNESS AND LID HEIGHT, BUT DOES NOT INCLUDE ATTACHED FEATURES, E.G., EXTERNAL HEATSINK OR CHIP CAPACTORS. AN INTEGRAL HEATSINK IS NOT CONSIDERED AN ATTACHED FEATURE.
 4. DIMENSION IS MEASURED AT THE MAXIMUM SOLDER BALL DIAMETER, PARALLEL TO PRIMARY DATUM C.
 5. PRIMARY DATUM C AND SEATING PLANE ARE DEFINED BY THE SPHERICAL CROWNS OF THE SOLDER BALLS.
 6. ALL DIMENSIONS ARE IN MILLIMETERS.

Microsemi		DWG. NO.		REV.
TITLE		COCOA# 22-0007		4
100L LBGA PACKAGE OUTLINE		84-06-128-332		
BODY SIZE : 11X11X1.55MM MAX		SHEET		SIZE
PITCH 10MM		1 OF 1		A4



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