

Features

- Generates any Telecom or SyncE frequency independent of the input frequency rate
- Two general purpose synthesizers generate a wide range of digital bus clocks
- Programmable digital PLLs synchronizes to any Telecom ($N \times 8 \text{ kHz}$) or any Synchronized Ethernet (SyncE) frequencies.
- Flexible two-stage architecture translates between arbitrary data rates, line coding rates and FEC rates
- Digital PLLs filter jitter from 14 Hz, 28 Hz, 56 Hz, 112 Hz, 224 Hz, 448 Hz or 896 Hz
- Four programmable Numerically Controlled Oscillators (NCOs) available where two NCOs can be used at the time
- Automatic hitless reference switching and digital holdover on reference fail
- Four reference inputs configurable as single ended

Ordering Information

ZL30150GGG	100 Pin LBGA	Trays
ZL30150GGG2	100 Pin LBGA*	Trays

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

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

Applications

- 10 Gigabit line cards
- Synchronous Ethernet, 10 GBASE-R and 10 GBASE-W
- SONET/SDH

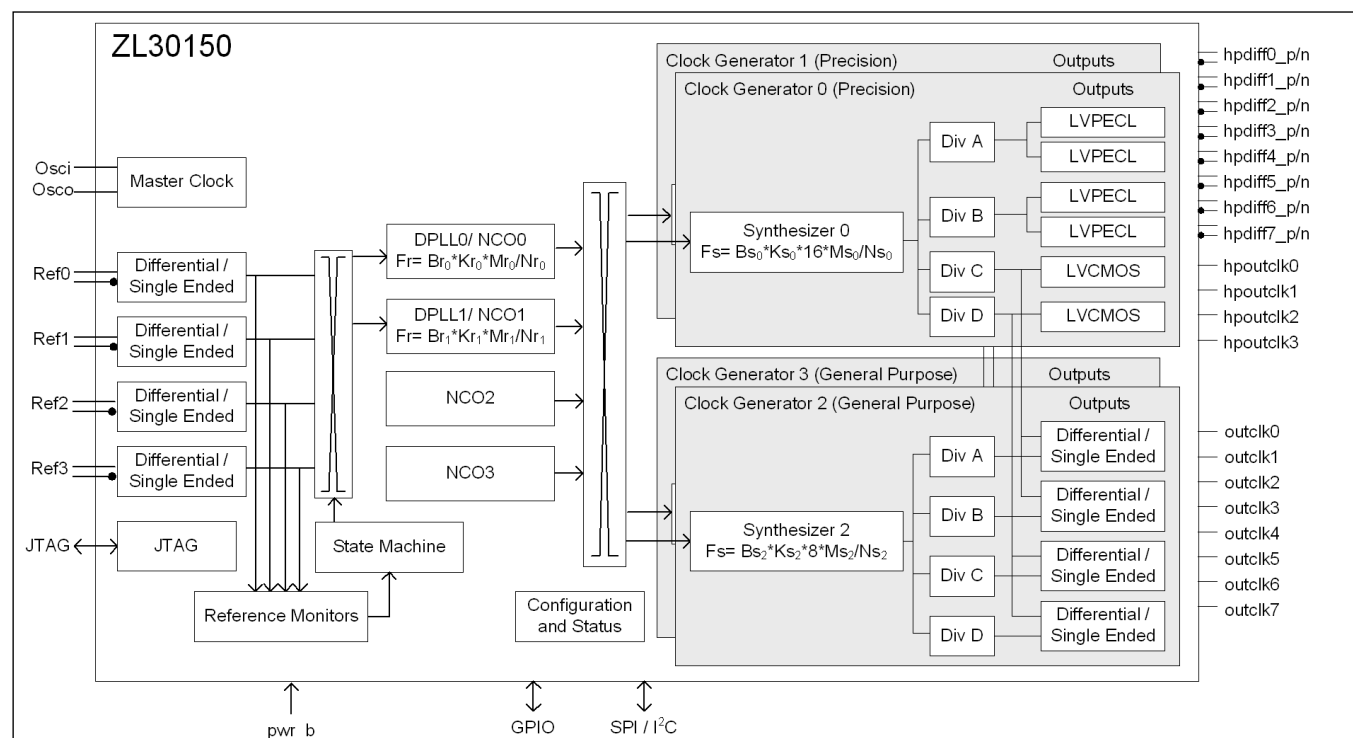
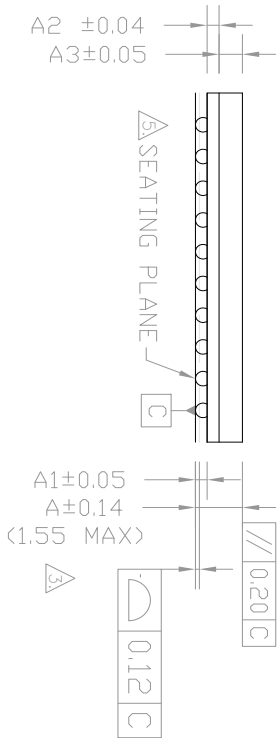
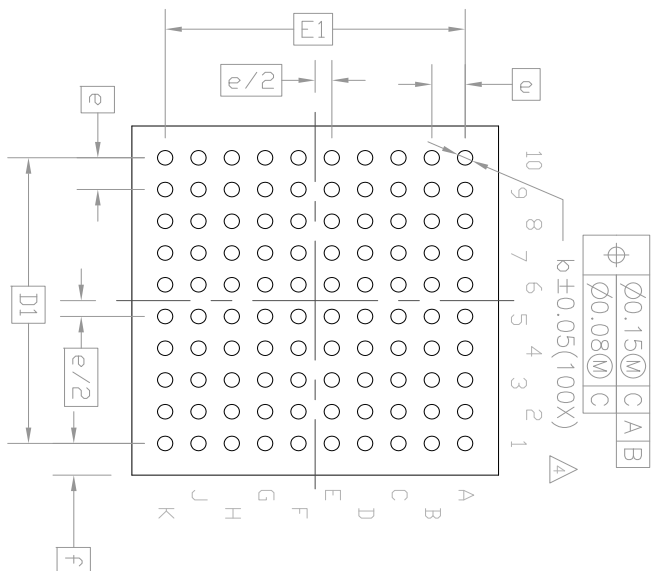


Figure 1 - Functional Block Diagram

Figure 1: Dimensions and Markings of the Laser Identification Tag. The tag is a rectangular label with a grid of 10 columns and 4 rows. The columns are labeled 1 through 10 at the top. The rows are labeled A, B, C, and D on the left. A circular feature is located in the top-left corner of the grid, with a leader line pointing to it and the text "OPTION PIN # A1 IDENTIFIED Ø1,00±0,1 INK OR LASER". The tag is mounted on a surface, with dimensions indicated by arrows and labels. The width of the tag is labeled "D" and the height is labeled "A". The tag is shown in two orientations: (2X) and (X).



6. ALL DIMENSIONS ARE IN MILLIMETERS.



SYMBOL	MILLIMETER			INCH		
	MIN	NOM	MAX	MIN	NOM	MAX
A	1.27	1.41	1.55	.050	.056	.061
A1	0.30	0.35	0.40	.012	.014	.016
A2	0.32	0.36	0.40	.013	.014	.016
A3	0.65	0.70	0.75	.026	.028	.029
b	0.40	0.45	0.50	.016	.018	.020
D	10.90	11.00	11.10	.429	.433	.437
D1	9.00	BSC			.354 BSC	
E	10.90	11.00	11.10	.429	.433	.437
E1	9.00	BSC			.354 BSC	
e	1.00	BSC			.039 BSC	
f	0.90	1.00	1.10	0.035	.039	.043

Microsemi	DMC. NO.	REV.
TITLE	CDCA# 22-0007	4
100L LEGA PACKAGE OUTLINE	84-06-128-332	
BODY SIZE :1X11X1.55MM MAX	SHEET	SIZES
PITCH 10MM	1 OF 1	A4



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