

Design name: Clock Gate Alpha**Target Device: Cyclone IV GX****Logic Utilization/Memory****Flow Summary**

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Flow Status	Successful - Sat Dec 13 22:40:43 2025
Quartus Prime Version	20.1.0 Build 711 06/05/2020 SJ Lite Edition
Revision Name	corelet
Top-level Entity Name	corelet
Family	Cyclone IV GX
Total logic elements	17,374 / 29,440 (59 %)
Total registers	12298
Total pins	0 / 81 (0 %)
Total virtual pins	562
Total memory bits	0 / 1,105,920 (0 %)
Embedded Multiplier 9-bit elements	0 / 160 (0 %)
Total GXB Receiver Channel PCS	0 / 2 (0 %)
Total GXB Receiver Channel PMA	0 / 2 (0 %)
Total GXB Transmitter Channel PCS	0 / 2 (0 %)
Total GXB Transmitter Channel PMA	0 / 2 (0 %)
Total PLLs	0 / 3 (0 %)
Device	EP4CGX30BF14C6
Timing Models	Final

Analysis & Synthesis Resource Usage Summary

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	Resource	Usage
1	Virtual pins	562
2	I/O pins	0
3		
4	DSP block 9-bit elements	0
5		
6	Maximum fan-out node	clk
7	Maximum fan-out	12298
8	Total fan-out	83405
9	Average fan-out	3.32

Max Frequency**Slow 1200mV 85C Model Fmax Summary**

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	Fmax	Restricted Fmax	Clock Name
1	137.17 MHz	137.17 MHz	clk

Power Estimates

Total Thermal Power Dissipation	245.43 mW
Core Dynamic Thermal Power Dissipation	35.37 mW
Core Static Thermal Power Dissipation	118.77 mW
I/O Thermal Power Dissipation	91.29 mW