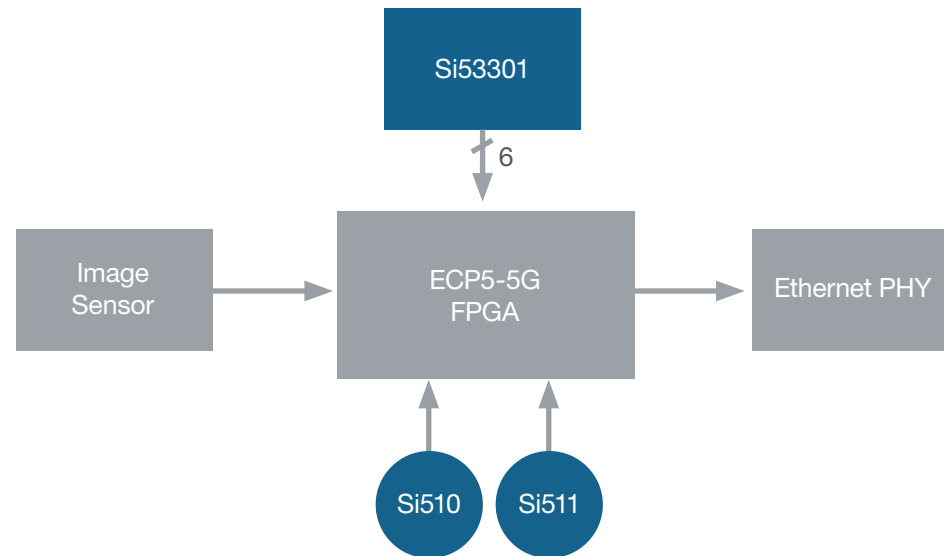


Timing Simplified

Silicon Labs offers a broad portfolio of frequency flexible timing products that enable hardware designers to simplify clock generation, distribution, and jitter attenuation. The portfolio includes:

- Network synchronizers
- Jitter attenuating clocks
- Clock generators
- Clock buffers
- PCIe clocks and buffers
- Oscillators (XO/VCXO)

Silicon Labs clocks use proprietary DSPLL and MultiSynth technologies to generate any combination of frequencies with ultra-low jitter, enabling best-in-class clock tree integration. Clock buffers provide low-jitter, low-skew clock distribution with integrated format/voltage level translation. PCIe clocks/buffers combine Gen 1/2/3/4 compliance with on-chip series termination, simplifying design. XO/VCXOs are factory-customizable to any frequency, with samples available in one to two weeks.



For more information related to reference designs or partner pricing, please contact your local Silicon Labs sales representative.



Oscillators

- Any frequency up to 1.5 GHz
- Ultra-low jitter: 80 fs RMS
- Short lead times: 1-2 weeks (samples)



Clock Generators

- Any-frequency, any-output
- Ultra-low jitter: 70 fs RMS
- Clock tree on a chip replaces clocks and XOs



Clock Buffers

- Integrated format/level translation
- Ultra-low additive jitter: 50 fs RMS
- PCI Express Gen 1/2/3/4 compliant



Jitter Attenuating Clocks/Network Sync

- Any frequency, any output
- Ultra-low jitter: 70 fs RMS
- Clock tree on a chip replaces clocks, XOs, VCXOs

Timing Solutions for Lattice Semiconductor



Silicon Labs			
Lattice Product Family	Lattice Evaluation Board	Timing Requirement	Silicon Labs Recommended Device
ECP5-5G	ECP5-5G Versa Board	1:6 Differential Buffer	Si53301
		100 MHz LVDS XO	Si511
		156.25 MHz CMOS XO	Si510
ECP5	ECP5 Video Processing Board	1:6 Differential Buffer	Si53301
		100 MHz LVDS XO	Si511
		125 MHz CMOS XO	Si510
ECP5-85	Crosslink Video Processing Input Board	1:2 CMOS buffer	Si53307
		27 MHz CMOS XO	Si510
		27 MHz CMOS XO	Si510
iCE40 UltraPlus	iCE40UP Mobile Development Platform Board	27 MHz CMOS XO	Si510

For more information, visit www.silabs.com/timing

Request a custom clock or XO/VCXO at www.silabs.com/custom-timing