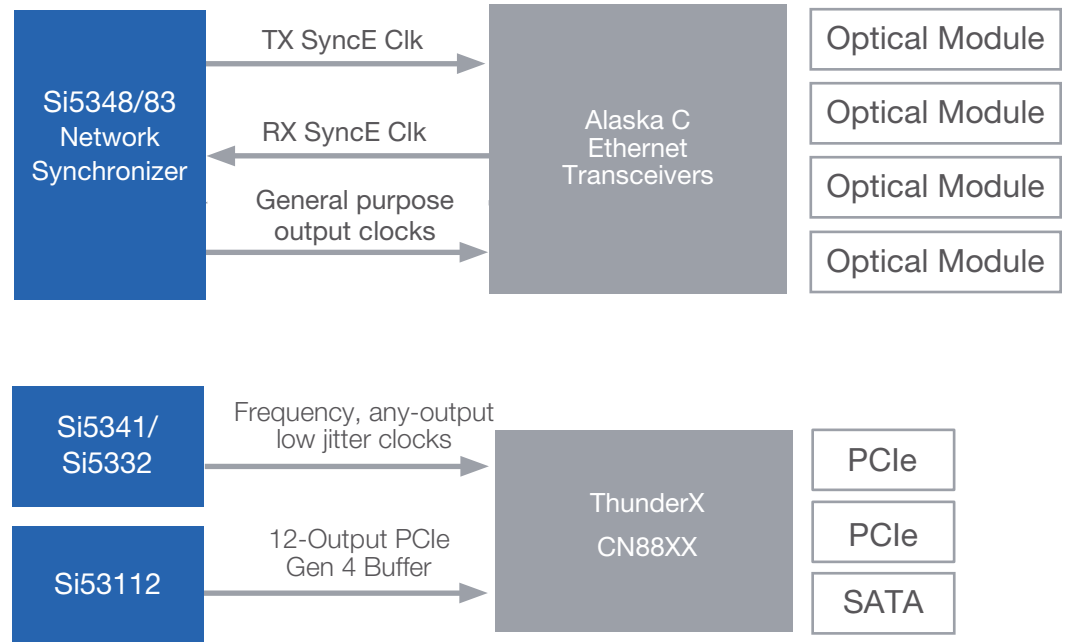


Timing Simplified

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 1/2/3/4/5 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 3 GHz
- Ultra-low jitter: 80 fs RMS
- Short lead times: 1-2 weeks (samples)



Clock Generators

- Any-frequency, any-output
- Ultra-low jitter: 69 fs RMS
- Clock tree on a chip replaces clocks and XOs
- PCI Express Gen 1/2/3/4/5



Clock Buffers

- Integrated format/level translation
- Ultra-low additive jitter: 50 fs RMS
- PCI Express Gen 1/2/3/4/5 compliant



Jitter Attenuating Clocks/Network Sync

- Any frequency, any output
- Ultra-low jitter: 69 fs RMS
- Clock tree on a chip replaces clocks, XOs, VCXOs

Timing Solutions for Marvell



Silicon Labs							
Marvell Product Family	Marvell Part Number	XO	Clock Buffers	Clock Generators	Network Synchronizers/ Jitter Attenuating Clocks	PCIe Clocks	PCIe Buffers
Alaska C Ethernet Transceivers	88X7120 88X51xx	Si54x	Si5330x	Si5341 Si5391	Si5348	Si5214x (3.3V) Si522xx (1.5V, 1.8V)	Si5315x (3.3V) Si532xx (1.5V, 1.8V)
Alaska X 10 Gigabit Ethernet Transceivers	88X3xxx 88X2xxx	Si51x	Si5330x	Si5332	Si5348	Si5214x (3.3V) Si522xx (1.5V, 1.8V)	Si5315x (3.3V) Si532xx (1.5V, 1.8V)
Presteria CX Switches	98CX85xx	Si54x	Si5330x	Si5391	Si5348 Si539x	Si5214x (3.3V) Si522xx (1.5V, 1.8V)	Si5315x (3.3V) Si532xx (1.5V, 1.8V)
Presteria DX Switches	88DX8xxx 98DX4xxx 98DX3xxx	Si51x	Si5330x	Si5332	Si5348	Si5214x (3.3V) Si522xx (1.5V, 1.8V)	Si5315x (3.3V) Si532xx (1.5V, 1.8V)
Presteria EX Switches	98EX54xx	Si51x	Si5330x	Si5332	Si5348	Si5214x (3.3V) Si522xx (1.5V, 1.8V)	Si5315x (3.3V) Si532xx (1.5V, 1.8V)
Host Storage Controllers	88NV11xx 88SS109x 88SE9xxx	Si51x	Si5330x	Si5332	-	Si5214x (3.3V) Si522xx (1.5V, 1.8V)	Si5315x (3.3V) Si532xx (1.5V, 1.8V)
Printer SoCs	88PA6xxx	Si51x	Si5330x	Si5332	-	Si5214x (3.3V) Si522xx (1.5V, 1.8V)	Si5315x (3.3V) Si532xx (1.5V, 1.8V)
ThunderX ARM Processors	CN88XX CN87XX	Si54x	Si5330 Si5315 Si5311x	Si534x Si5332	-	Si5214x (3.3V) Si522xx (1.5V, 1.8V)	Si5315x (3.3V) Si532xx (1.5V, 1.8V)
ThunderX2 ARM Processors	CN99XX	Si54x	Si5330 Si5315 Si5311x	Si534x Si5332	-	Si5214x (3.3V) Si522xx (1.5V, 1.8V)	Si5315x (3.3V) Si532xx (1.5V, 1.8V)
OCTEON TX 64-bit ARM Processors	CN83XX CN82XX CN81XX CN80XX	Si54x	Si5330 Si5315 Si5311x	Si534x Si5332	-	Si5214x (3.3V) Si522xx (1.5V, 1.8V)	Si5315x (3.3V) Si532xx (1.5V, 1.8V)
OCTEON III Multi-Core MIPS64 Processors	CN7XXX CN78XX CN70XX	Si51x	Si5330 Si5315x Si5311x	Si5332	-	Si5214x (3.3V) Si522xx (1.5V, 1.8V)	Si5315x (3.3V) Si532xx (1.5V, 1.8V)
OCTEON II Multi-Core MIPS64 Processors	CN67XX CN66XX CN63XX CN62XX CN61XX	Si51x	Si5330 Si5315 Si5311x	Si5332	-	Si5214x (3.3V) Si522xx (1.5V, 1.8V)	Si5315x (3.3V) Si532xx (1.5V, 1.8V)
NITROX Security Processors	CNN55XX CNN35XX	Si51x	Si5330 Si5315 Si5311x	Si5332	-	-	-

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

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