



Enable Edge Computing and 5G Networks with Precision Clocks and Synchronizers

Precise timing and synchronization is required in Smart NICs and accelerator cards powering high performance computing, hyperscalers, 5G networks, artificial intelligence (AI) and machine learning (ML) systems. As data centers continue to support demands for increased data streaming and 5G front-haul and ML capabilities, they must accommodate increased bandwidth, speed, and low latency Universal Coordinated Time (UTC) synchronization. Skyworks ultra-low jitter clock generators, network synchronizers, and IEEE 1588 PTP software solve critical timing requirements.

skyworksinc.com

Featured Products

Si5391 Ultra-low-jitter clock generator with 12 outputs

- Integer and non-integer frequencies up to 1028 MHz
- Delivers 69 fs RMS jitter SyncE outputs
- Configurable output formats including LVPECL, LVDS, LVCMOS, HCSL, CML

Si540x NetSync™ single-chip network synchronizer clocks with 18 outputs

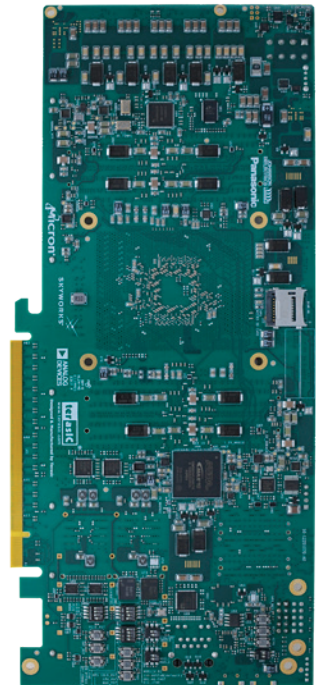
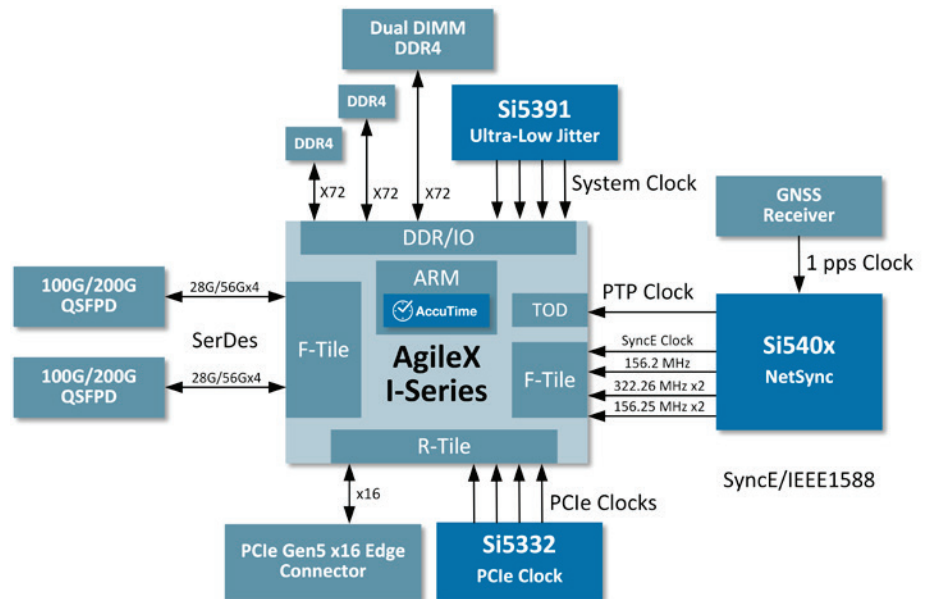
- Integer and non-integer frequencies from 1 PPS to 1288 MHz
- Delivers 55 fs RMS jitter SyncE outputs
- Supports SyncE and IEEE 1588 with DCO adjustable at 1 ppt resolution

Si5332 Any-frequency, any output clock generator supporting PCIe Gen 3/4/5/6

- Embedded reference crystal option simplifies board design
- Integer and non-integer related frequencies up to 333.33 MHz
- Comprehensive clock tree plans with two MultiSynth fractional synthesizers and five integer dividers

AccuTime™ IEEE 1588 software

- Sixth-generation solution with 8+ years field deployment
- Standards-compliant PTP stack and servo optimized for all network types
- Generic and telecom profile (G.8275.1, G.8275.2, G.8265.1) support



Part Number	Description	Package
Si5391	Ultra-low jitter, any-frequency, any-output clock generator	64-pin 9 x 9 mm QFN
Si540x	NetSync™ single-chip network synchronizer clocks for SyncE and IEEE 1588	72-lead 10 x 10 mm QFN
Si5332	Any-frequency, any-output clock generator	32-, 40-, 48-pin QFN or LGA