



## Skyworks Introduces Best-in-Class Jitter Attenuating Clocks to Address High-Speed Communications' Timing Requirements

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*New Si536x Product Family Delivers Ultra-High Performance 55 fs RMS for 400/800G networks*

MUNICH--(BUSINESS WIRE)--Nov. 15, 2022-- Skyworks Solutions, Inc. (Nasdaq: SWKS) today launched its latest portfolio of jitter attenuators for high-speed networking, communications and data center equipment forming the backbone of today's internet infrastructure. These new products are designed to meet the performance requirements of high-speed networks deployed to carry 5G traffic and support new applications like AI and edge computing. The new [Si536x](#) product family complements Skyworks' current [Si539x](#) jitter attenuating clocks to suit the specific timing needs of designers and vendors.

Increasing demand for data bandwidth is driving the need for 400G/600G/800G+ Ethernet links using high-speed 56G/112G/224G PAM-4 SerDes and coherent optical technologies for internet infrastructure and data center environments. The Dell'Oro Group forecasts that these data rates currently comprise half of the total Ethernet data center, with 800G expected to dominate by 2025.<sup>1</sup> These high-speed systems require multiple clocks at different frequencies, signaling formats and voltage levels with ultra-low jitter.

To address this need, the Si536x product family provides frequency flexibility and clock tree on-a-chip integration in a compact clock IC solution with up to 18 clock outputs featuring <55 fs RMS jitter, enabling optimal transceiver performance. The increased jitter margin also helps de-risk product development and accelerate time to market for networking equipment vendors.

"Skyworks' latest product family continues the company's long-standing history of developing innovative timing solutions, featuring its ultra-low jitter DSPLL® architecture with MultiSynth™ 'any-frequency' clock synthesis," said James Wilson, vice president and general manager of timing products at Skyworks. "These products address the next generation of high-speed communications' designs, allowing our customers to take advantage of the highest performance, lowest jitter clocks available."

Skyworks' Si536x family offers the following features and benefits:

- Up to 18 outputs with any combination of frequencies up to 2.75GHz and a wide range of selectable output formats, including LVPECL, LVDS, CML, HCSL and LVCMOS. These output thresholds are also customizable to support chipsets that have non-standard formats.
- Seamless input clock management with exceptional input reference clock switching performance, including internal and external hitless switching modes of operation, supporting 35 ps and 75 ps phase transients respectively.
- Full suite of clock quality metrics and alarms providing full visibility to clock fault monitoring.
- Best-in-class < -90dB power supply rejection, enabling designers to reduce noise filtering components leading to a more cost-efficient solution and simplified bill of materials.
- In-circuit reconfigurability enabling output frequency changes on the fly system downtime.

Designers can quickly configure clock tree designs with Skyworks' [ClockBuilder Pro](#) software. Using the intuitive ClockBuilder Pro with integrated design-rule checks, power consumption estimates and crosstalk wizard, designers can quickly generate complex device configurations in less than ten minutes, minimizing software development overhead.

[Skyworks will be exhibiting at Electronica in Stand B5-138](#), taking place in Munich from Nov. 15-18, 2022.

### About Skyworks

Skyworks Solutions, Inc. is empowering the wireless networking revolution. Our highly innovative analog and mixed signal semiconductors are connecting people, places and things spanning a number of new and previously unimagined applications within the aerospace, automotive, broadband, cellular infrastructure, connected home, defense, entertainment and gaming, industrial, medical, smartphone, tablet and wearable markets.

Skyworks is a global company with engineering, marketing, operations, sales and support facilities located throughout Asia, Europe and North America and is a member of the S&P 500® and Nasdaq-100® market indices (Nasdaq: SWKS). For more information, please visit Skyworks' website at: [www.skyworksinc.com](http://www.skyworksinc.com).

### Safe Harbor Statement

Any forward-looking statements contained in this press release are intended to qualify for the safe harbor from liability established by the Private Securities Litigation Reform Act of 1995. Forward-looking statements include without limitation information relating to future events, results and expectations of Skyworks. Forward-looking statements can often be identified by words such as "anticipates," "expects," "forecasts," "intends," "believes," "plans," "may," "will" or "continue," and similar expressions and variations or negatives of these words. Actual events and/or results may differ materially and adversely from such forward-looking statements as a result of certain risks and uncertainties including, but not limited to, our ability to timely and accurately predict market requirements and evolving industry standards and to identify opportunities in new markets; our ability to develop, manufacture, and market innovative products and avoid product obsolescence; our ability to compete in the marketplace and achieve market acceptance of our products; delays in the standardization or commercial deployment of 5G technologies; the availability and pricing of third-party

semiconductor foundry, assembly and test capacity, raw materials and supplier components; the quality of our products; our products' ability to perform under stringent operating conditions; and other risks and uncertainties identified in the "Risk Factors" section of Skyworks' most recent Annual Report on Form 10-K (and/or Quarterly Report on Form 10-Q) as filed with the Securities and Exchange Commission ("SEC"). Copies of Skyworks' SEC filings can be obtained, free of charge, on Skyworks' website ([www.skyworksinc.com](http://www.skyworksinc.com)) or at the SEC's website ([www.sec.gov](http://www.sec.gov)). Any forward-looking statements contained in this press release are made only as of the date hereof, and we undertake no obligation to update or revise the forward-looking statements, whether as a result of new information, future events or otherwise.

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<sup>1</sup> Dell'Oro Group. (2022 July 14). *Data Center Switch Market to Approach \$100 B Over the Next Five Years, According to Dell'Oro Group* [press release]. <https://www.delloro.com/news/data-center-switch-market-to-approach-100-b-over-the-next-five-years/>

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