



Infinera Breaks Industry Record with 800G Transmission over 950 Kilometers in a Live Network Trial

Sunnyvale, Calif., – March 17, 2020, 8:00 a.m. ET – Infinera (NASDAQ: INFN) announced today the successful completion of a live network trial of 800 gigabits per second ([800G](#)) single-wavelength transmission at 96 Gbaud over 950 kilometers (km) across a long-haul link in a major North American network operator’s production network. Powered by Infinera’s sixth-generation dual-800G Infinite Capacity Engine (ICE6) technology, this achievement signals a major industry milestone in driving down the cost per bit of telecommunications networks. The trial showcased the ability of Infinera’s 800G technology designed to enable network operators to rapidly and cost-effectively address the increasing capacity demands of new services such as 5G, enhanced broadband, and cloud-based business services.

Conducted over a third-party optical line system carrying live multi-vendor traffic, the production network trial was implemented using Infinera’s industry-leading [Groove \(GX\) Series](#), equipped with an ICE6-based sled over industry-standard G.652 fiber. The results of the trial demonstrated the superior performance value of Infinera’s vertically integrated ICE6 optical engine, which features second-generation Nyquist subcarriers, 64QAM with per-subcarrier long-codeword probabilistic constellation shaping, and per-subcarrier dynamic bandwidth allocation.

“The success of this trial proves our ability to transmit 800G high-baud-rate signals across significant distances, which will be instrumental in driving down network costs,” said Parthi Kandappan, Chief Technology Officer at Infinera. “This marks another major accomplishment for Infinera’s Optical Innovation Center, adding to its long history of pioneering innovations in optical networking.”

For more information about 800G technology and its value to evolving high-capacity networks, [watch this video](#).

Contacts:

<i>Media:</i> Anna Vue Tel. +1 (916) 595-8157 avue@infinera.com	<i>Investors:</i> Lauren Sloane, The Blueshirt Group for Infinera Tel. +1 (415) 217-2632 ir@infinera.com
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About Infinera

Infinera is a global supplier of innovative networking solutions that enable carriers, cloud operators, governments, and enterprises to scale network bandwidth, accelerate service innovation, and automate network operations. The Infinera end-to-end packet optical portfolio delivers industry-leading economics and performance in long-haul, submarine, data center interconnect, and metro transport applications. To learn more about Infinera, visit www.infinera.com, follow us on Twitter [@Infinera](https://twitter.com/Infinera), and read our latest blog posts at www.infinera.com/blog.

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This press release contains forward-looking statements including, but not limited to the technical, financial and operational benefits provided using ICE6 technology and the GX Series of products. These statements are not guarantees of results and should not be considered as an indication of future activity or future performance. Actual results may vary materially from these expectations as a result of various risks and uncertainties. Information about these risks and uncertainties, and other risks and uncertainties that affect Infinera's business or its products, is contained in the risk factors section and other sections of Infinera's Quarterly Report on Form 10-Q for the Fiscal Quarter ended September 28, 2019 as filed with the SEC on November 12, 2019, as well as any subsequent reports filed with or furnished to the SEC. These reports are available on Infinera's website at www.infinera.com and the SEC's website at www.sec.gov. Infinera assumes no obligation to, and does not currently intend to, update any such forward-looking statements.