

Infinera and Corning Achieve 800G Across 800 Kilometers with ICE6

Sunnyvale, Calif. – March 3, 2020, 12:00 p.m. ET – Infinera (NASDAQ: INFN) and Corning Incorporated (NYSE: GLW) announced today the industry-leading achievement of delivering an 800 gigabits per second (800G) single wavelength with Infinera’s sixth-generation [Infinite Capacity Engine](#) (ICE6) technology across 800 kilometers (km) on Corning’s TFX® optical fiber. The success of Infinera and Corning’s 800G trial demonstrates the benefits of an industry leading coherent 800G solution with superior fiber designed to help meet growing bandwidth demands for network operators from metro to subsea network applications.

The demonstration leveraged Infinera’s ICE6 technology in a [Groove \(GX\) Series platform](#) transmitting 800G using 64QAM with probabilistic constellation shaping (PCS). This record-breaking achievement was accomplished using Corning’s state-of-the-art TFX fiber, an ITU-T G.654.E compliant, ultra-low-loss, silica-core fiber with large effective area. This demonstration highlighted the advanced features of Infinera’s vertically integrated ICE6 technology, including Nyquist subcarriers, per-subcarrier long-codeword PCS, and per-subcarrier dynamic bandwidth allocation.

“This demonstration proves that 800G transmission using Infinera’s industry-leading technology enables a wide variety of network applications and is further enhanced by Corning’s innovative TFX fiber,” said Parthi Kandappan, Chief Technology Officer at Infinera. “This achievement is made possible by Infinera’s high degree of vertical integration including our in-house digital signal processor design, photonic integrated circuit design and manufacturing, and holistic in-house packaging.”

“We are pleased to work with Infinera to demonstrate how our combined leading-edge technologies can maximize capacity and reach,” said Jeanne Propst, division vice president, product line management, Optical Fiber and Cable, Corning Incorporated. “Our TFX fiber, with its high-data-rate capabilities and exceptional reach, helps network operators stay ahead of growing bandwidth demands while lowering their overall network costs.”

ICE6 combines Infinera’s sixth-generation photonic integrated circuit with its in-house-developed 7-nanometer dual-channel 800G per-wave FlexCoherent® digital signal processor.

Contacts:

| | |
|--|---|
| <p><i>Infinera Media:</i> Anna Vue Tel. +1 (916) 595-8157 avue@infinera.com</p> | <p><i>Infinera Investors:</i> Lauren Sloane, The Blueshirt Group for Infinera Tel. +1 (415) 217-2632 ir@infinera.com</p> |
| <p><i>Corning Media:</i> John Arwood Tel. +1 (828) 901-6424 arwoodjm@corning.com</p> | <p><i>Corning Investors:</i> Ann H.S. Nicholson Tel. +1 (607) 974-6716 nicholsoas@corning.com</p> |

About Corning Incorporated

Corning (www.corning.com) is one of the world's leading innovators in materials science, with a more than 165-year track record of life-changing inventions. Corning applies its unparalleled expertise in glass science, ceramic science, and optical physics along with its deep manufacturing and engineering capabilities to develop category-defining products that transform industries and enhance people's lives. Corning succeeds through sustained investment in RD&E, a unique combination of material and process innovation, and deep, trust-based relationships with customers who are global leaders in their industries.

Corning's capabilities are versatile and synergistic, which allows the company to evolve to meet changing market needs, while also helping our customers capture new opportunities in dynamic industries. Today, Corning's markets include optical communications, mobile consumer electronics, display technology, automotive, and life sciences vessels. Corning's industry-leading products include damage-resistant cover glass for mobile devices; precision glass for advanced displays; optical fiber, wireless technologies, and connectivity solutions for state-of-the-art communications networks; trusted products to accelerate drug discovery and delivery; and clean-air technologies for cars and trucks.

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.

Infinera and the Infinera logo are registered trademarks of Infinera Corporation.

This press release contains forward-looking statements including, but not limited to Infinera's expectations that its ICE6 coherent 800G solution will help meet growing bandwidth demands for network operators from metro to subsea network applications and enable a wide variety of network applications. 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, 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.