



## Infinera Announces ICE6, the Next-generation Infinite Capacity Engine Featuring 800G Waves

**Sunnyvale, Calif. – February 19, 2019, 8:00 a.m. ET** – Infinera announced today its sixth-generation Infinite Capacity Engine, [ICE6](#), a new benchmark in high-capacity optical transmission with dual-channel 800 gigabits per second (800G) per wave and leading optical performance. Part of [The Infinite Network](#), ICE6 builds on the success of Infinera’s ICE4 and Instant Bandwidth with a 1.6 terabits per second (1.6T) optical engine, providing a seamless path for network operators to meet the relentless growth of bandwidth and increasingly dynamic, unpredictable traffic flows.

Packaged in a cross-platform digital coherent module, ICE6 combines Infinera’s sixth-generation photonic integrated circuit (PIC) with its in-house 7 nanometer (nm) FlexCoherent® digital signal processor (DSP) technology. The ICE6 PIC is available today, and will be demonstrated for the first time at the Optical Fiber Conference and Exhibition ([OFC](#)) in San Diego, California from March 5-7, 2019. The FlexCoherent 6 DSP will be available in Q3-2019, with the complete ICE6 optical engine available by end of year, and platforms powered by ICE6 commercially available in the second half of 2020.

High baud rate transmissions like 800G have extremely tight tolerances in module design. With the use of revolutionary Nyquist subcarriers, deep vertical integration and mastery of indium phosphide photonics, Infinera is uniquely positioned to deliver an industry-leading 800G solution. Featuring a second-generation probabilistic constellation shaping engine, powered by 7 nm technology and a comprehensive toolkit of advanced coherent technologies, ICE6 will deliver up to 45 percent higher maximum capacity per fiber, streamlined operations and lowest total cost of ownership.

“Infinera has historically been a leader in photonic integration and at the forefront of developing solutions in house, exemplified by high-volume shipments of multiple generations of coherent engines,” said Andrew Schmitt, Directing Analyst, Optical Networking at Signal AI. “ICE6 should demonstrate similar leadership, with levels of optical performance that deliver greater capacity and reach for network operators.”

“Infinera continues to lead industry innovation with ICE6, delivering the first coherent 800G per wave solution to the market ahead of schedule,” said Dr. Dave Welch, Infinera Founder and Chief Innovation Officer. “Similar to the launch of ICE4, ICE6 will transform the market by delivering cutting-edge technology, designed in house, enabling network operators to respond to the insatiable demand for capacity quickly while optimizing costs.”

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### **About Infinera**

Infinera (NASDAQ: INFN) 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, subsea, data center interconnect and metro transport applications. To learn more about Infinera visit [www.infinera.com](http://www.infinera.com), follow us on Twitter @Infinera and read our latest blog posts at [www.infinera.com/blog](http://www.infinera.com/blog).

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This press release contains forward-looking statements including, but not limited to the potential technical, financial and operational benefits that ICE6 may provide to a network operator. 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 quarter ended September 29, 2018 as filed with the SEC on November 8, 2018, as well subsequent reports filed with or furnished to the SEC. These reports are available on Infinera's website at [www.infinera.com](http://www.infinera.com) and the SEC's website at [www.sec.gov](http://www.sec.gov). Infinera assumes no obligation to, and does not currently intend to, update any such forward-looking statements.