



## The Industry's Highest-performance Coherent Optical Engine, Infinera's 1.6T ICE6, Gets a Turbo Charge

**San Jose, Calif. – February 22, 2022** – Infinera (NASDAQ: INFN) announced today the introduction of [ICE6 Turbo](#), the industry's first coherent optical solution that can operate above 100 Gbaud. Produced in Infinera's in-house, U.S.-based fabrication center, ICE6 Turbo is a performance-optimized configuration of Infinera's industry-leading 1.6T (2 x 800G) ICE6 coherent optical engine. With the introduction of the Turbo mode, ICE6 increases its lead over competitive solutions by providing up to a 30 percent performance boost in high-speed applications. The result is the industry's first solution that enables network operators to support 4 x 400 GbE services using a single optical engine across long-haul distances and 3 x 400 GbE services across ultra-long-haul distances, driving down the cost per bit of delivering high-speed optical services.

400 GbE services are rapidly becoming the most important service offering for many network operators. By supporting more 400 GbE services in a single optical engine across longer distances than any other solution on the market, ICE6 Turbo can provide significant economic benefits to network operators. ICE6 Turbo builds on the industry-leading performance of Infinera's ICE6 optical engine, widely deployed by leading network operators globally and recognized for setting industry records for network performance.

Infinera's ICE6 Turbo solution leverages the capabilities of the company's unique monolithic indium phosphide-based photonic integrated circuit (PIC) technology. The new benchmark for optical performance set by ICE6 Turbo is enabled by the holistic co-design of the various optical engine components and pioneering optical networking features including second-generation Nyquist subcarriers, long-codeword probabilistic constellation shaping (LC-PCS), dynamic bandwidth allocation, and soft-decision forward error correction (SD-FEC) gain sharing.

"ICE6 Turbo builds on Infinera's heritage of delivering innovative optical solutions that provide meaningful value for our customers," said Ron Johnson, General Manager of Infinera's Optical Systems & Network Solutions Group. "ICE6 Turbo further pushes the boundaries of optical performance, enabling our customers to rapidly scale their networks with industry-leading economics."

As with currently available ICE6 solutions, ICE6 Turbo will be available in both C- and L-band variants and will be showcased at [OFC 2022](#) in San Diego. ICE6 Turbo functionality will be generally available in the early fourth quarter of 2022.

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### **About Infinera**

Infinera is a global supplier of innovative [open optical networking](#) solutions that enable carriers, cloud operators, governments, and enterprises to scale network bandwidth, accelerate service innovation, and automate network operations. Infinera solutions deliver 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](http://www.infinera.com), follow us on [Twitter](#) and [LinkedIn](#), and [subscribe for updates](#).

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This press release contains forward-looking statements, including but not limited to the technical, financial and operational benefits of Infinera's ICE6 Turbo and the importance of 400 GbE services to network operators. 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 25, 2021 as filed with the SEC on November 3, 2021, 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](http://www.infinera.com) and the SEC's website at [www.sec.gov](http://www.sec.gov). Forward-looking statements include statements regarding our expectations, beliefs, intentions or strategies and can be identified by words such as "anticipate," "believe," "could," "estimate," "expect," "intend," "may," "should," "will," and "would" or similar words. Infinera assumes no obligation to, and does not currently intend to, update any such forward-looking statements.