



Ciena Solidifies AI Networking Leadership, Unveils New Innovations for High-Speed Connectivity

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- New developments in hyper-rail photonics, 1600ZR/ZR+ pluggables, full-spectrum coherent transponders and network automation
- Recent introduction of Vesta 200 6.4T CPX optical engine from Nubis acquisition
- Continuous innovation in highly dense, high-capacity optical solutions address AI demands of hyperscale and service provider networks

HANOVER, Md.--(BUSINESS WIRE)--Mar. 10, 2026-- [Ciena](#) (NYSE: CIEN) continues to strengthen its leadership in shaping the future of networking with new innovations designed to meet surging AI-driven bandwidth demands. Including recently acquired co-packaged/near-packaged optics and electrical redriver technologies from Nubis Communications, Ciena's latest solutions support growing AI workload demands by significantly increasing network capacity and density.

"Ciena is building on our established leadership in high-capacity, low-latency optical networking with innovations that address the AI-driven transformation of networks," said Dino DiPerna, Senior Vice President of Global Research & Development at Ciena. "Our latest advancements in hyper-rail photonics, 1600ZR/ZR+ pluggables, and agentic AI enabled automation drive high-speed connectivity and scalable capacity to support the increasing demands of next-generation AI workloads."

Ciena's new data center innovations to be featured at [OFC 2026](#) (booth #1927) include:

- **Hyper-rail photonics:** new amplifier configurations in collaboration with hyperscalers and service providers, that deliver up to 32x the density of today's solutions or 128 fiber pairs in a single rack, reducing power consumption by up to 75% and space requirements by 85%
- **Next generation coherent technology:** 2nm silicon designed to enable single-carrier 1.6 Tb/s coherent (1600ZR/1600ZR+) pluggables and full spectrum transponders that scale, simplify, and automate networks with higher capacity, more compact solutions
- **AI-driven network automation:** Agentic AI capabilities powered by data-rich telemetry, featuring new agents for assurance, routing, and network digital twin validation, deliver exceptional operational efficiency and reliability

"The surge in AI workloads is creating unprecedented pressure within and between data centers, forcing a rethink of network architecture. According to our findings, demand for purpose-built optical DCI equipment will nearly double in the next five years," said Jimmy Yu, Vice President at Dell'Oro Group. "In that period, cloud providers will implement new architectures such as scale-across to overcome space and power bottlenecks. Ciena's new innovations in hyper-rail photonic systems, 1600ZR/ZR+ based on 2nm design, and full-spectrum transponders will help bridge the gap between the existing infrastructure and the higher-capacity, lower-latency demands of AI-driven applications."

Ciena's new innovations, which include 800 Gb/s C- and L-band coherent pluggables and photonic line systems optimized for [scale across](#) applications, and the recently announced [Vesta 200 6.4T CPX flexible](#), open pluggable optical engine, will support hyperscaler and neoscaler efforts to scale their AI infrastructure.

For more context behind what Ciena's new innovations mean for the future of networking, check out this [blog](#). For more information about Ciena's participation at OFC see this [link](#) or to schedule a meeting visit this [link](#) or contact pr@ciena.com.

About Ciena

Ciena is the global leader in high-speed connectivity. We build the world's most advanced networks to support exponential growth in bandwidth demand. By harnessing the power of our networking systems, interconnects, automation software, and services, Ciena revolutionizes data transmission and network management. With unparalleled expertise and innovation, we empower our customers, partners, and communities to thrive in the AI era. For updates on Ciena, follow us on [LinkedIn](#), or visit the [Ciena Insights webpage](#) and [Ciena website](#).

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Press Contact: Jamie Moody
Ciena Corporation
+1 (410) 694-5761
pr@ciena.com

Investor Contact: Gregg Lampf
Ciena Corporation
+1 (410) 694-5700
ir@ciena.com

Source: Ciena Corporation