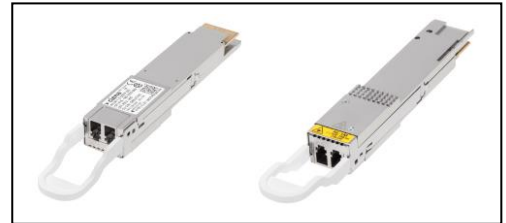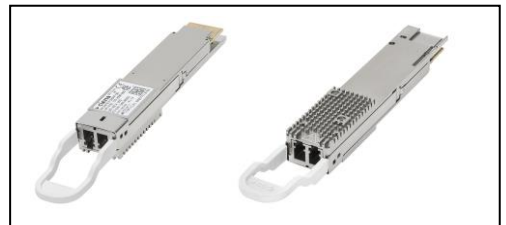At *OFC 2024*, Ciena takes part in OIF's interoperability demonstrations in the following areas: 400ZR, 400ZR+, OpenROADM/ITU-T and Common Management Interface Specification (CMIS), supporting the demos with both 81xx Coherent Routers and WaveLogic™ 5 Nano 100G-400G Coherent Pluggable Transceivers.

Ciena's WaveLogic 5 Nano 100G-400G Universal QSFP-DD transceiver includes embedded amplification, enabling ease of deployment across a wide range of applications, over all types of photonic line systems. With support for both interoperable modes (400ZR, 400ZR+ and OpenROADM), as well as leading 70Gbd PKT-MAX and OTN-MAX performance-enhanced modes for extended reach-capacity in pluggable form, users have maximum flexibility with WL5n Universal QSFP-DD.
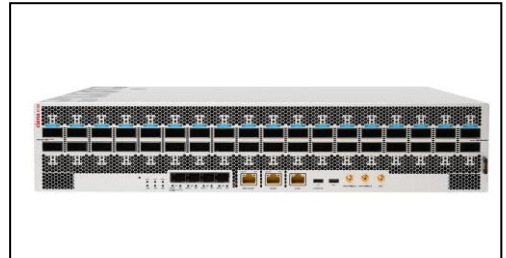

Ciena's WaveLogic 5 Nano 100G-400G Enhanced QSFP-DD supports interoperable transport such as 400ZR and 400ZR+ as well as Ciena high-performance PKT-MAX mode for extended 400G reach.

Ciena's WaveLogic 5 Nano 100G-400G Standard CFP2-DCO is a coherent pluggable transceiver that delivers space and power-efficient, interoperable 400 Gb/s for multiservice metro ROADM, as well as 100G/200G for legacy network modernization.
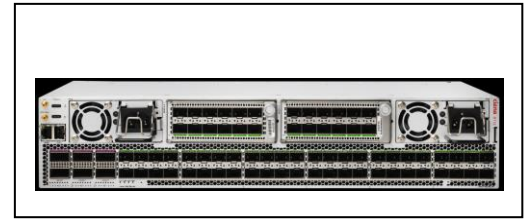

Ciena 8190 Coherent Metro Router is a dense 14.4Tb/s switching platform in a compact 2RU footprint with 36 x 400/200/100GbE ports. With dense 100/200/400GbE any-to-any port Wide Area Network (WAN) aggregation and the option of full fill WaveLogic 5 Nano (WL5n) 400ZR, 400ZR+ as well as enhanced performance modes for extended reach, the 8190 addresses the need for dense, any-to-any high-capacity routing and switching metro applications.

400ZR, 400ZR+ and OpenROADM interoperability. Ciena's 8190 Coherent Metro Router is hosting 8 different 3rd party 400ZR and 400ZR+ QSFP-DD transceivers in this demo. WL5n Standard QSFP-DD, housed in 3rd party router, is demonstrating 400ZR multi-vendor line interop. Both the WL5n Enhanced QSFP-DD (-10dBm Txout) and WL5n Universal QSFP-DD (+4dBm Txout) are demonstrating 400ZR+ line interoperability with 3rd party pluggables. Highlighting the flexibility of the product, WL5n Universal QSFP-DD is also used to demonstrate OpenROADM line interoperability in a compact QSFP-DD form factor with 3rd party vendor transceivers.

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Ciena's 8114 Coherent Aggregation Router is purpose-built for 1/10/25/100GbE services and 100/200/400 Gb/s transport. As a 2.4 Tb/s, 2RU central aggregator and distribution point, it perfectly balances high-density 1/10/25GbE and 6x100GbE fixed ports— supporting 10G PON micro-Optical Line Terminal (uOLT) pluggables—and two 800 Gb/s Field-Replaceable Units (FRUs) modular ports. Each modular port can support Ethernet or coherent modules, including the option of 100, 200, and 400 Gb/s coherent pluggables (both QSFP-DD and CFP2-DCO form factors), in a compact, extended-temperature and energy-efficient form factor.

CMIS: Ciena and other OIF members are demonstrating how third-party hosts can provision optical modules from various vendors based on the module's advertised applications. The 8114 coherent router will show plug and play provisioning of 3rd party plugs for custom applications. WL5n 400G Enhanced QSFP-DD is demonstrating how it advertises standard interoperable modes in a third-party router using CMIS to enable plug-and-play provisioning.