

Polish Enterprise-Grade 400G Optical Router



Article Overview

Poland's enterprise and carrier networks are now deploying 400G optical routers using Ciena's WaveLogic 5 Nano ZR+ coherent pluggable modules, enabling high-capacity, multi-vendor, and energy-efficient transport.

Deployment in Poland

Polish network operator EXATEL has implemented Ciena's WaveLogic 5 Nano (WL5n) 400G ZR+ coherent pluggable transceivers across its 23,800-kilometer fiber-optic network, connecting major Polish cities to European interconnection hubs such as London, Frankfurt, Stockholm, Vienna, and Paris . This deployment represents the first disaggregated, software-defined optical network architecture in Poland, allowing EXATEL to integrate multiple router vendors while delivering high-speed, energy-efficient services . The WL5n modules consume less than 20W per module and support multi-rate interoperability from 100G to 400G, making them suitable for access, metro-regional, and data center interconnect (DCI) applications .

400G ZR and ZR+ Technology

400G ZR modules are designed for high-density, point-to-point DCI applications, supporting 400 Gb/s over up to 40 km on a single fiber without amplification, and up to 120 km with external amplification . 400G ZR+ modules extend this capability with high-gain forward error correction (FEC), flexible 100G-400G line rates, and multiple modulation formats (QPSK, 8QAM, 16QAM), achieving distances up to 600-750 km...

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Service provider router sales benefit from 400G demand: Dell'Oro

The market research firm states in its new Service Provider Router & Switch 5-Year Forecast Report that demand for

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Explore how 400G optical transceivers are transforming data centers in 2025. Learn about standards, architectures,

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400G ZR, 400G OpenZR+, 400G OpenROADM

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Transforming Data Centers & Mobile Networks with 400G | Arrcus

Optical Transport for Service Provider Transport: Service providers SPs need resilient, high-capacity transport

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400G Solutions

For the most demanding environments the 400G routing and switching platforms provide flexibility and

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What is 400ZR?

400ZR defines a footprint-optimized solution for transporting 400Gb Ethernet over DCI links targeting a

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400G ZR+ Pluggable Optics: Redefining Optical Network Economics

Self-Healing Networks: In-situ OTDR functionality via backward Rayleigh scattering analysis Conclusion 400G ZR+

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OFC 2025 400ZR White Paper 4_17

The mixed light of 400ZR signal and ASE light was introduced into a 50:50 fiber coupler and divided into two paths.

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The 400GE inflection point

Rapid advances in silicon are fueling a new generation of pluggable coherent 400G router optics that open exciting new avenues for

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10 Best Enterprise Router: In-depth Reviews

An enterprise-grade router is a high-performance networking device designed specifically for use in large-scale business

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Primer: A Guide to 400G Optical Networks

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The 400G Era

The new 400G systems complement the 7280R3 and 7800R3 cloud grade routers that deliver large scale routing, ultra

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A quick guide to upgrading from 100G to 400G, covering cabling, transceivers, switch requirements, and cost-efficient

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Poland's EXATEL Implements Ciena's 400G ZR+

Polish network operator EXATEL has selected Ciena's WaveLogic 5 Nano (WL5n) 400G ZR+ coherent pluggable

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Dell'Oro 400G Market Adoption Research and Information

400G IS IMPLEMENTED WITH PLUGGABLE OPTICS 1.6TG 400G 100G Infrastructure planning will be critical for the transition to

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Nokia's 400G Everywhere: Optimizing IP/Optical Networks with Next ...

Nokia's 400G Everywhere, launched by Nokia in May last year, introduces the fifth generation of digital coherent optics

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How 400G Optical Modules Are Shaping Next-Gen Networks

Discover key factors driving the rapid adoption of 400G optical transceivers, including AI, 5G, coherent optics, and

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What is the 400G Optical Module?

Nowadays, the progress of 400G optical module development and mass production is relatively satisfactory. In the

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400 Gbps Technology: The Next Phase of the Internet Backbone

Given the expected traffic growth across backbone networks around the world, we believe the increasing adoption of

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The LINK-PP LQD-CW400-LR4C 400G QSFP-DD LR4 Transceiver offers 10km range, 400Gbps speed, and energy

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Price of 400G Fiber Optic Enterprise Router

Sailing Poland Optoelectronic Systems (SPO) supplies fiber optic infrastructure: optical transceivers, PLC splitters, ODF racks, patch

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Carrier Backbone Network Lebanon Enterprise-Grade Optical Router

This analysis provides a foundation for comparing available 400G optical technologies and aligning them with contemporary data

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A big day for the Service Provider customers in Poland

These distance enhanced optics are a key building block of Cisco's Routed Optical Network (RON) strategy, replacing expensive and

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Multi-Vendor 400G Coherent Optical Transceiver Interoperability Testing

1. Introduction Several years ago, hyperscale network operators saw an opportunity for coherent Dense Wavelength

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Broadcom's 400G/lane Optical Solutions Pave the Path Toward 200T ...

Building upon its first-to-market 400G EML and PD debuted at OFC 2025, Broadcom is launching the Taurus BCM83640, the

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Improve Your Network Efficiency with 400G Optics

400G ZR/ZR+ Remote Routers/Switches The best option to interconnect a 400G router to a legacy 100G router is leverage 400G

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400G Optical Modules 2026 Guide: DR4 vs. FR4 vs. LR8 Lab

Our CCIE/HCIIE team shares lab-tested benchmarks for DR4, FR4, and LR8, focusing on power efficiency, latency,

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OpenZR+ Technology: Enabling High-Performance 400G Long

By pairing Smartoptics' DCP-M40-C-ZR+ with Edgecore's OpenZR+ enabled switches and routers, customers can

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Growing the Network with 400 Gbps Coherent Pluggable Optics

For Routed Optical Networking designs, we aim at shortening the distances between routers and the ~0.5 to 1 dB OSNR difference

Contact Us

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