





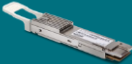





Juniper Networks

Featured Solutions in OIF 2025 Interoperability Demonstration:

- JCO Coherent Optical Transceivers (100G ZR, 400G ZR/ZR+, 800G ZR/ZR+)
- PTX10002-36QDD Packet Transport Router – 800G Platform
- ACX7024 Cloud Metro Router
- QFX5240-64OD Switch – 800G Platform

Juniper Networks is a proud, longstanding, and active member of the Optical Internetworking Forum (OIF). We champion multi-vendor collaborations that lead to meaningful, standards-based market innovations. In the OIF booth at OFC 2024, Juniper participated in the first public 800ZR system (router and transceivers) interop demo with the PTX10002-36QDD router. This year, we are excited to showcase our continued focus on 800G routing and switching solutions and 100G, 400G and 800G coherent solutions. Juniper supports technologies that enable its global customers to realize the compelling benefits of IPoDWDM in a myriad of WAN use cases.

JCO Coherent Optical Transceivers

100G ZR -8dBm Tx Power		
400G ZR -10dBm Tx Power		
400G ZR+ -10dBm & 0dBm Tx Power		
800G ZR/ZR+ 0dBm Tx Power		

Juniper Coherent Optics (JCO) are essential to transformation strategies for operators looking to evolve to 100G ZR, 400ZR, 400G OpenZR+, and 800ZR/ZR+ coherent optics. Juniper Coherent Optics provides power efficiency, low TCO, and network automation for enterprise, cloud metro, peering, and cloud use cases.

PTX10002-36QDD Packet Transport Router – 800G Platform

The **Juniper Networks PTX10002-36QDD** is a next-generation cloud-optimized 2U fixed-configuration routing platform based on Juniper's Express 5 ASIC. The platform delivers unparalleled performance, supporting dense 100GbE, 400GbE, and 800GbE for robust scaling in a myriad of WAN, full-density IPoDWDM and data center network use cases. With an industry leading 28.8 Tbps capacity, the PTX10002-36QDD excels in space- and power-constrained environments.



ACX7024 Cloud Metro Router

ACX7024 multiservice routers are environmentally rated, high-performance platforms that deliver 360 Gbps throughput in a 1U form factor. They offer 24 multirate 1/10/25GbE ports and four 100GbE



ports to scale cloud metro services. The ACX7024 and ACX7024X are MEF 3.0-certified and ideal for metro access applications that are based on passive optical networking (PON) and related technologies. Powered by Junos® OS Evolved and Juniper

Paragon™ Automation, they deliver advanced features such as segment routing (SR), SRv6, MPLS, EVPN-VXLAN, advanced programmability, network slicing, and telemetry.

QFX5240-640D Switch – 800G Platform

QFX5240 800GbE switches (64 port 800GbE) are next-generation, fixed-configuration platform designed for spine, leaf, and border switch roles available in OSFP and QSFP-DD variants. The switch provides flexible, cost-effective, high-density 800GbE, 400GbE, 100GbE, and 50GbE interfaces for intra-IP fabric connectivity as well as higher density 200/400GbE NIC connectivity for AI/ML use cases. It's 51.2Tbps unidirectional throughput meets the bandwidth requirement of AI/ML workloads and storage systems with latency in the range of 700-750ns (store and forward). Remote Direct Memory Access (RDMA) is the de-facto data transfer technology used in AI/ML workloads, and it uses Remote Direct Memory Access over Converged Ethernet v2 (ROCEv2) for transport at the network layer. QFX5240 supports ROCEv2 along with congestion management features like Priority Flow Control (PFC), explicit congestion notification (ECN), and data center quantized congestion notification (DCQCN).



Learn more at:

[Juniper.net](https://www.juniper.net)



QR Code to all Juniper OFC25 featured solutions...

