

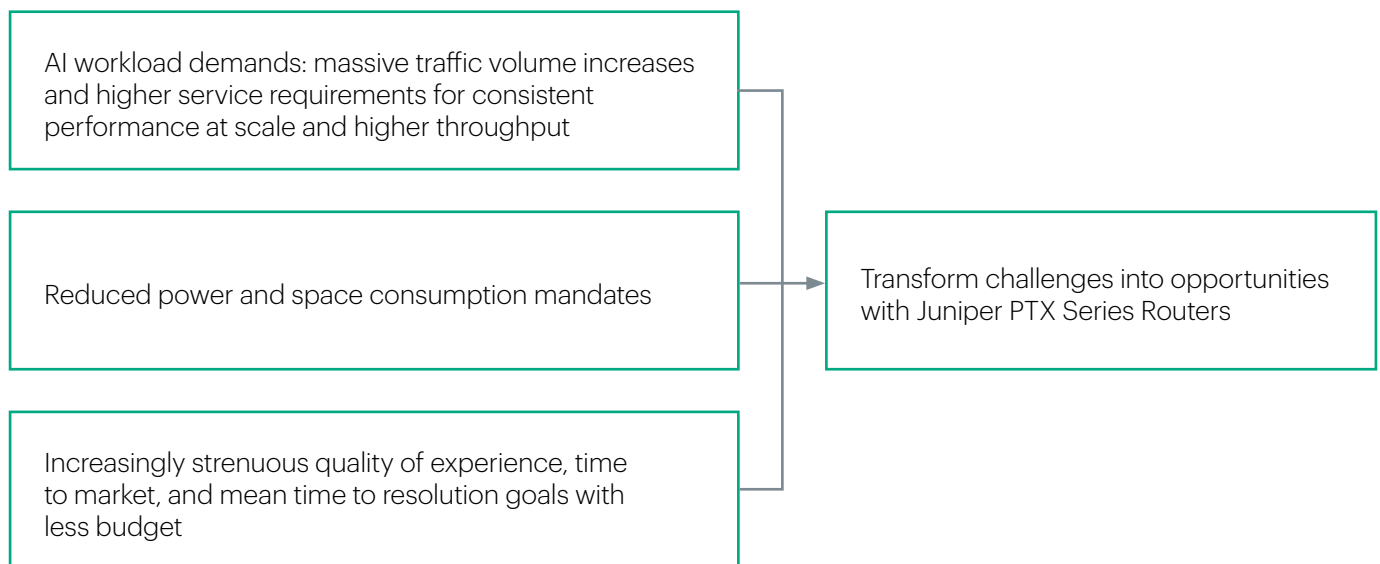


Packet transport routing for the AI era

Future-proof infrastructure to meet AI's explosive
bandwidth demands and achieve your sustainability goals



Yesterday's networks weren't built to handle today's huge AI workloads. Unpredictable traffic patterns, congestion, and latency can jeopardize critical business outcomes, while operational complexity and manual processes make it difficult to adapt quickly and maintain efficiency.



Advanced technologies like 800G and AI-driven automation hold the potential to meet these challenges head-on. But turning potential into reality requires the right infrastructure—and not all solutions on the market are up to the task.

Future-proof routing, purpose-built for AI


Juniper PTX Series Routers stand apart with advanced 800G and double-density 400G capabilities, embedded AI-native automation, and multi-layer sustainability features, delivering efficiency in the most demanding environments. Built upon decades of networking expertise and leadership, our routers power many of the world's largest WAN and data center networks.

Over 3,000 service and cloud providers globally, including many Fortune 500 companies, have deployed Juniper PTX Series Routers.

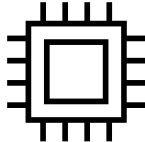
Instead of:	Benefit from:
Unpredictable application performance from network congestion	Consistent, high-throughput routing for mission-critical workloads
Too many IT hours spent on manual troubleshooting and reactive maintenance	Freed up IT resources from fast automated root cause analysis and simplified operations
Unsustainable energy consumption and excessive space requirements	Reduced power and space requirements to support ESG goals
Security gaps and fragmented network controls	Proactive threat mitigation and full observability
Rigid fixed-function hardware that limits scale	Modular, scalable architecture for rapid deployment and upgrading

Exceptional performance for AI workloads

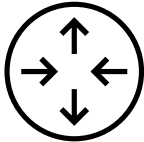
Juniper PTX Series Routers are purpose-built to meet the performance, flexibility, and reliability demands of AI workloads, today and in the future. Benefit from secure, high performance, high-density routing that can scale across, scale out, and scale up the network as your use case requires.



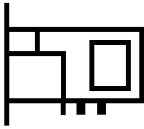
Line-rate MAC-sec encryption and robust DDoS protection for data integrity and network resilience




Custom express 5 silicon for high-speed, efficient packet processing



Exceptional port density for scale-up, high-capacity routing



Up to 43.2 terabits per second (Tbps) throughput per PTX12000 line card or 28.8 Tbps per PTX10000 line card or fixed system to support mission-critical workloads at scale

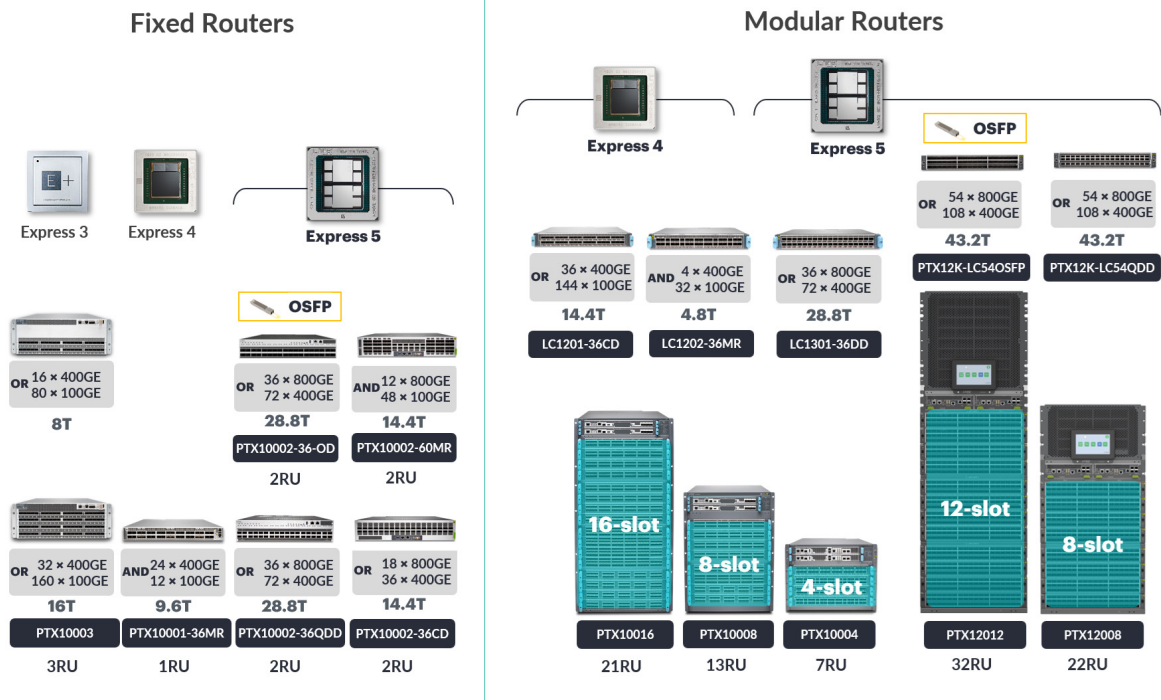


Converged Optical Routing Architecture (Integrated IP over DWDM) for increased bandwidth

Our scalable routing architecture is designed to support a wide range of use cases, including:

- Core
- Peering
- Data Center Interconnect (DCI)
- Aggregation
- AI-driven data centers

Choose from a variety of models (including 800G-ready options) for next-gen performance:



AI-native automation for simplified, optimized operations

Modern networks are too dynamic and complex for manual operations. AI-native automation changes the game by embedding intelligence into every layer of the network. Juniper PTX Series Routers include advanced AI automation to increase efficiency, minimize human error, secure connections, and deliver optimized experiences—moving you closer to a self-driving network. Simplify the operator experience with:

- Design once, deploy often pre-defined intent models for exceptional connectivity
- Full observability across data and control planes and devices
- Embedded active assurance for continuous user experience from design to operations
- Automated troubleshooting to find and fix issues faster

Sustainable by design

Juniper PTX Series Routers provide multilayer sustainability across silicon, systems, and operations, offering increased space and power efficiency to help you meet your environmental, social, and governance goals.

<p>Up to 75%¹ less power consumption</p>	<p>Up to 49%² less Watts per gigabit</p>	<p>Driving net zero emissions by 2040</p>
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Reduce TCO and increase sustainability with optimized power consumption

¹ Based on HPE Juniper Networking internal analysis/power efficiency calculations for PTX10001 and PTX10002, and calculations for LC1201 and LC1301 ASIC design

² Based on HPE Juniper Networking internal test results of Express 4 ASIC vs Express 5 ASIC performance and consumption analysis

Customer story

Major U.S. telecommunications company quadrupled their capacity and reduced space requirements

Faced with surging network traffic and the rollout of 5G Ultra Wideband, a U.S. telecommunications company needed to dramatically increase core capacity and operational efficiency. By deploying Juniper PTX Series Routers, they simplified architecture and automated operations, delivering a next-gen packet core network that supports 400G today and offers a seamless path to 800G.

- 100 million wireless customers
- 115 Tbps of data
- 60% less space and power requirements
- 4x capacity for fiber network core

Routing built for AI, designed for your success

Juniper PTX Series Routers push the boundaries of traditional WAN and data center networking, transforming challenges into opportunities for your organization. With secure, high performance, high-density routing, you can scale across, out, and up to meet the growing demands of AI workloads and evolving traffic patterns. Future-proof your network with a routing solution engineered for agility, reliability, and sustainability, so you can confidently support mission-critical applications and accelerate business outcomes in the AI era.

Learn more at

[HPE.com/networking](https://hpe.com/networking)



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