

JUNIPER  
NETWORKS

# ACX7000 FAMILY



Engineered Brilliance for Cloud Metro

# THE START OF ALL THINGS REVOLUTIONARY

Our enhanced *Cloud Metro ACX7000 Family portfolio* combines the latest generation forwarding ASICs, power innovations, chassis design and more. Just as importantly, it achieves the right balance of density, scalability and performance for today's metro demands, with ample room to grow.

## THE RESULTS

- Wide Portfolio: fixed, fixed + modular, and fully modular
- Port Flexibility/Density: 1/10/25/40/50/100/200/400 and ZR/ZR+
- Power efficient: Single Chip Fixed & Centralized Modular Architectures
- Highest Timing Precision Accuracy: Class-D verified
- ~4 to 7 Years Longer System Life



**61-77%** Lower Power Consumption | **29-64%** More Space Efficient | **53-71%** Lower TCO

# UNRAVEL THE POSSIBILITIES OF THE JUNIPER ACX7000 FAMILY OF CLOUD METRO ROUTERS

## KEY ATTRIBUTES

Groundbreaking innovations, including:

- Latest-Generation Silicon
- Exceptional Port Flexibility, Density and Scalability
- Optimized Airflow and Thermal Design
- Unrestricted high-power ZR/ZR+ support
- Ultra-high Timing Accuracy
- Use Case-Based Automation
- Embedded Paragon Active Assurance
- Built-in Zero Trust Security
- Assured, Automated Transport Network Slicing



ACX7000 Series Family

# ACX7000 FAMILY

## Fixed Platforms

Our fixed-system platform with multiservice options for the Cloud Metro are just as compelling and more compact. Sometimes the best things do come in small packages!

## ACX7020

### Hardened for harsh environments, compact, fixed, 1-25G Cloud Metro router

The I-Temp rated ACX7020 redefines access performance for expanded use cases. A 1 U, compact (24cm depth), and hardened for harsh environments. Features a conformal coating and removable air filter. 5G-optimized Cell Site Router (CSR), FWA, and CPE. Offers highly accurate timing support, next-generation transport options, and interface support, including 1G, 10G, and 25G port options. Enhanced reliability leads to longer life and lower maintenance costs.

01



02



## ACX7024

### Hardened, compact, fixed, 1-100G Cloud Metro router

The I-Temp rated ACX7024 sets a new benchmark with industry-leading access performance. A 1 U, compact (24cm depth), 5G-optimized Cell Site Router (CSR) offers highly accurate timing support, next-generation transport options such as SR/SRv6 with EVPN, and compelling interface support including 1G, 10G, 25G and 100G port options along with 100G high power transceiver use. 5G xHaul has never been so well supported – until now!

# ACX7000 FAMILY

## Fixed Platforms

### ACX7024X

#### Compact, fixed, 1-100G Cloud Metro router

The C-Temp rated, compact (24cm depth) ACX7024X provides the benefits and capabilities of the ACX7024 while being optimized for higher scale deployments leveraging a faster CPU and 64GB of RAM. With enhanced FIB scale, this enables the ACX7024X to support over a million routing entries spanning a wide variety of Cloud Metro use cases.

03



### ACX7100-32C

#### High-capacity, secure, high density, fixed, 100-400G, Cloud Metro router

The ACX7100-32C is unique in the industry by offering 32 ports of 100G QSFP28 ports, capable of supporting 100G ZR optics on each port simultaneously, along with 4 ports of 400G with ZR/ZR+ support. Juniper's ACX7100 series leads in sustainable expansion for the future, here today.

04



# ACX7000 FAMILY

## Fixed plus Modular Platforms

Our innovative fixed plus modular platforms are high-performance, power efficient, and deliver exceptional port fan-out, density and capacity for all your Cloud Metro locations and requirements.

## ACX7100-48L

### High-capacity, high-density, fixed, 10-400G, Cloud Metro router

The ACX7100-48L offers category-leading port speed options to help customers grow in-place as their capacity needs grow, with 48 ports capable of supporting 10G, 25G, and even 50G interfaces on every port simultaneously to meet demanding bandwidth needs for 5G xHaul or Cable R-PHY aggregation, or even local connectivity for high-speed NICs from distributed edge compute nodes deep in the Cloud Metro. This is complemented by 6 ports of 400G with QSFP-DD optics for non-blocking uplinks, allowing easy growth from 100G to 400G with different choice of optics population, and support for 400G ZR/ZR+ on each port.



## ACX7348

### I-Temp rated, compact, dense, highly available, fixed plus modular, 1-400G Cloud Metro router

The ACX7348 delivers multiservices in a 3U fixed plus modular, compact (29cm depth), power efficient footprint. It provides 48 fixed (SFP28) multi-rate ports configurable as 1G, 10G and 25G, and 8 additional fixed (QSFP-28) 100G ports. It also has three I/O bays that provide support for optional interface modules covering a range of port speeds from 1G to 400G, MACsec available at all port rates, and exceptional 50G density (32 ports in 3U) enabling operators to perform today's most common transport upgrades without forklift.

# ACX7000 FAMILY

## Fixed plus Modular Platforms

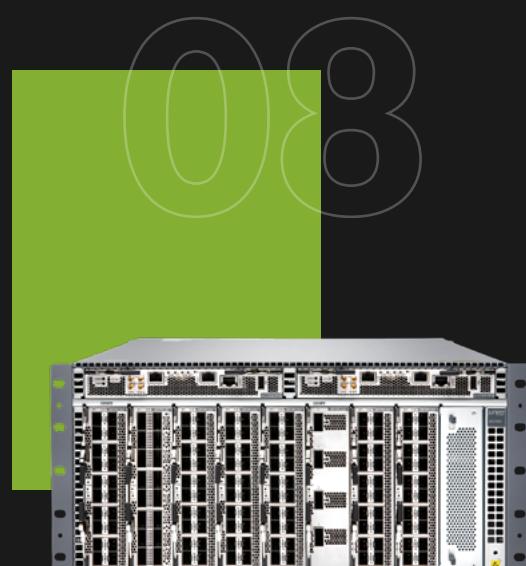
### ACX7332

**E-Temp rated, compact, dense, highly available, high scale, fixed plus modular, 1-400G Cloud Metro router.**

The ACX7332, with 32 fixed SFP28 ports provides the benefits and capabilities of the ACX7348 - 8 fixed 100G ports, three I/O bays, MACsec, 50G density, etc. - while being optimized for high scale deployments leveraging external ternary content addressable memory (eTCAM) technology to optimize performance, accelerate lookup and minimize latency for a variety of Cloud Metro use cases.



Our innovative fully modular platform is high-performance, high availability (HA), power efficient, and delivers exceptional port fan-out density and capacity for the requirements of all your Cloud Metro locations.



### ACX7509

**Compact, high-density, highly available, modular, 1-400G, Cloud Metro router**

The ACX7509 8-slot, 5 U, fully redundant chassis design delivers compelling TCO advantages for customer networks, borrowing a page from Juniper's storied routing history to once again deliver a new router with fabric-less architecture and fewer components, ICs and ASICs setting new benchmarks for low power consumption and high TCO savings. Highly flexible interface module options deliver 1G to 400G services with MACsec available on all ports. It delivers the perfect, optimized balance of power, performance, price and space for the Cloud Metro.

# Embedded Active Assurance



## Scalable, Assured and Secure Metro IP Services Fabric Architecture

The Cloud Metro ACX7000 family routers are designed for experience-first networking. Paragon Active Assurance test agents are now natively embedded into the Junos OS Evolved in every ACX7000 platform. We've transformed the metro network into a "sensor" that proactively ensures user experience without requiring advanced expertise or timeconsuming manual labor. For example, you will know if a new site is ready to serve customers or if edge clouds will meet SLA requirements for a new network slice. And, because most problems are resolved before they affect customers, incident response times can be cut in half, resulting in happier, more loyal subscribers.

# ZERO TRUST



## Security

ACX7000 Family features built-in Zero Trust Security. A unique Device ID is cryptographically bound to every ACX7000 platform during manufacturing and automatically verifies that the device hardware and software haven't been tampered with. These Cloud Metro platforms also feature data security, including native file encryption to protect at rest and MACsec encryption on all ports to safeguard data in motion. In addition, Juniper Paragon™ Automation offering includes validation and reporting of network trust to provide insight into infrastructure security posture across an end-to-end network

Together, these capabilities create a more scalable, assured, and secure metro IP services fabric that's optimized for the explosion of new devices and applications at the metro edge. They provide a powerful foundation to deliver next-generation metro edge services and network slices and achieve sustainable business outcomes.

# BUILDING

## For The Future



At Juniper, we balance design choices not just for today, but for the next decade. With a complete portfolio, state-of-the-art system design, and the industry's most flexible interface options, you can grow at your own pace, adding capacity where and when you need it. You can build a more sustainable business with Cloud Metro —for your people, the planet, and profit.



Scan this QR code to learn more about  
the Juniper ACX7000 Family Portfolio



#### Statement of Product Direction

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