



Cisco 8000 SP routers for core and edge, hyperscale DCI

Cisco ASR 9900/9000 metro service routers and BRAS

Cisco NCS 4200/4000 PTN for OTN and TDM services

- High-density 200G/400G/800Gbps at wire-rate
- Cisco Silicon One (7nm) for 28.8Tbps; Unified routing/switching
- GRES (Non-Stop Forwarding), sub-200ms failover (ASR 9000)
- Hierarchical QoS: 1M queues (ASR 9000), 100ms deep buffers (8000 series)
- IOS XR with modular microkernel: 1M+ FIB; zero-downtime patching
- Streaming telemetry: Sub-10s analytics with JSON/GPB encoding for AIOps
- Segment Routing & EVPN: SRv6 and Multi-domain EVPN for DC/WAN

Juniper PTX 10000 Series routers for core, DCI, metro aggregation, and AI/ML

Juniper MX 10000/960/480 Series routers for SP edge, BNG, cloud edge, SD-WAN

Juniper ACX 1000/500 Series routers for metro access, 5G backhaul, enterprise WAN

- Express 5 chip on PTX Series with 28.8 Tbps, 8M counters, and wire-rate MACsec
- Trio Chipset enables MX Series to handle advanced services (NAT & CGN) at wire rate
- SDN Integration: APIs for OpenFlow, NETCONF/YANG, and PCE-P
- Telemetry: Real-time streaming with gRPC/GPB for AI-driven analytics
- SRv6: Simplifies MPLS networks, reduces configuration complexity by 60%
- EVPN-VXLAN: Multi-tenant cloud integration with <1ms convergence
- Automation: Juniper Paragon Automation integrates AIOps for self-healing



Huawei 9000 Series routers for core backbone, DCI, IXP peering

Huawei 8000 Series routers for metro core, cloud gateway, aggregation

Huawei NE40E / CE600 Series routers for IP backbone edge, metro aggregation

Huawei ME60 Series BRAS and CGN

- Custom ASICs enabling full-duplex line-rate forwarding for IPv4/IPv6/MPLS
- SRv6: Automates cross-domain provisioning, reduces MPLS complexity by 60%
- FlexE: Enables network slicing for 5G/cloud services
- Master NCE: AI-driven network automation with real-time telemetry (iFIT)
- SDN Integration: Open APIs for multi-vendor orchestration
- IP + Optical Synergy: NE9000 supports DWDM/ROADM integration, save 40% fiber