



A **Cisco Secure Router** is designed to protect data as it moves between devices and the internet. Equipped with an integrated next-generation firewall (NGFW) to defend against cyberthreats including features such as application awareness and control, integrated intrusion prevention, and cloud-delivered threat intelligence.

Benefits:

Cisco IOS XE (8100, 8200, 8300, 8400, 8500-8600 series):

- **Purpose-built secure networking processor:** Deliver hardware-accelerated routing, integrated security, cryptography, and AI-ready performance on a single platform.
- **High-performance routing:** Scale from enterprise branches to 100 Gigabit Ethernet environments while supporting AI, cloud, and encrypted traffic.
- **Enterprise SD-WAN:** Simplify large-scale deployments with Cisco SD-WAN, centralized policy management, and automation.
- **Post-quantum security:** Prepare for emerging quantum computing threats with post-quantum cryptography ([PQC](#)) capabilities and Secure Boot.

Cisco Meraki MX OS (8100, 8200, 8300, 8400 series):

- **Cloud-managed simplicity:** Deploy, monitor, and manage every location through the intuitive Meraki dashboard with zero-touch provisioning.
- **Unified networking and security:** Combine advanced routing, [SD-WAN](#), next-generation firewall, and security services in a single platform.
- **Resilient secure connectivity:** Up to 20 Gbps of firewall throughput, cellular options for reliable failover for modern apps, internet traffic, and distributed workforces.
- **End-to-end visibility:** Monitor application performance, users, devices, and network health from one centralized dashboard.

Secure Router 8000 Series Specs:

8100 Series: (Small branch)

- 1GE LAN/WAN w/ 5G options
- SD-WAN: Up to 900 Mbps
- IPsec: Up to 1.5 Gbps (512B)
- Threat protection: Up to 1 Gbps¹

8200 Series: (Medium branch)

- 1GE, 2.5GE, and 10GE w/ cellular backup
- SD-WAN: Up to 4 Gbps
- IPsec: Up to 5 Gbps (512B)
- Threat protection: Up to 2.4 Gbps¹

8300 Series: (Large branch – edge)

- 1GE, 2.5GE, 5GE, and 10GE LAN/WAN with additional expandability
- SD-WAN: Up to 12 Gbps
- IPsec: Up to 30 Gbps (512B)
- Threat protection: Up to 7 Gbps¹

8400 Series: (Campus – High performance)

- 1GE, 10GE, and 25GE for WAN aggregation
- SD-WAN: Up to 21.7 Gbps
- IPsec: Up to 45 Gbps (512B)
- Threat protection: Up to 10.9 Gbps¹

8500 Series: (Data Center – High perform)

- 10GE, 40GE, and 100GE secure connectivity for data center hub access
- SD-WAN: Up to 21 Gbps
- IPsec: Up to 63 Gbps (512B)
- IPsec tunnels: 10,000

8600 Series: (Data Center – Highest perform)

- 10GE, and 100GE secure connectivity for data center hub access
- SD-WAN: Up to 80 Gbps
- IPsec: Up to 225 Gbps (512B)
- IPsec tunnels: 12,000

Key Capabilities:

Network Connectivity:

Seamless Connectivity across devices and systems. High-speed, reliable connections support advanced security measures like real-time traffic monitoring and threat detection.

Security:

Secure routers include advanced security features beyond encryption. They monitor traffic and act as barriers between trusted and untrusted networks. They defend against cyberthreats and lock threats in real time. Include application awareness and control, integrated intrusion prevention, and cloud-delivered threat intelligence.

Data Routing:

Secure routers utilize intelligent routing algorithms to manage network traffic, ensuring optimal speed and reliability. This capability supports security measures by segregating sensitive data and prioritizing traffic to protect against unauthorized access and evolving threats.

Traffic Management:

Traffic management is crucial for secure routers, enabling them to regulate data flow and prevent congestion. By prioritizing critical data and implementing quality of service (QoS) policies, secure routers maintain optimal performance and security.

SD-WAN:

Secure routers utilize SD-WAN to enhance network management, security, and performance through centralized control and intelligent traffic optimization. Additionally, it facilitates seamless cloud integration, optimizing cloud application performance and secure access.

Resources:

[SalesResources](#)

[Ordering Guide](#)

[At-a-Glance](#)

[FAQ's](#)

8000 Series Data Sheets:

[8100 Series](#)

[8200 Series](#)

[8300 Series](#)

[8400 Series](#)

[8500 Series](#)

[8600 Series](#)

[What is a Secure Router](#)

[Router Selector Tool](#)

[Miercom Report](#)

[Public page](#)

¹Threat protection (EMIX): 100% DIA - NAT + NGFW + IPS + URL Filtering