

Cisco Secure Firewall 6100 Series At-a-Glance

High performance security for AI-ready data centers

Data center traffic is changing rapidly as AI workloads, distributed applications, and encrypted connections increase the scale and complexity of enterprise infrastructure. Security cannot become the bottleneck.



The Cisco Secure Firewall 6100 Series is an ultra-high-performance 2RU firewall platform designed for demanding data center and service provider environments.

It combines high-throughput threat inspection, encrypted traffic visibility, modular scalability, and resilient operations as a high-performance enforcement



800 Gbps

max firewall throughput

600 Gbps

max NGFW

150 Gbps

max TLS decryption

Benefits

Performance for AI-ready data centers:

Deliver up to 8 Tbps of threat inspection with high throughput per rack unit in a compact 2RU form factor.

Encrypted traffic protection: Help identify risky encrypted traffic and detect emerging threats without making security a performance bottleneck.

Better security economics: Increase throughput per rack unit while reducing space, power, and cost requirements compared with competitive firewalls for similar use cases.

Simpler security operations: Extend consistent policy, visibility, and management from the data center into the broader Cisco Hybrid Mesh Firewall architecture.

Resilience as you grow: Support high availability, clustering, and continuous connectivity for critical applications and infrastructure.

Capabilities

High-density data center security:

Combine firewalling, threat prevention, VPN, and TLS decryption in a 2RU form factor with modular 1G to 400G interfaces.

Encrypted traffic visibility: Identify risky traffic without decrypting selected flows; selectively decrypt TLS 1.3 and QUIC when deeper inspection is required.

Advanced threat defense: Use Cisco Talos threat intelligence, intrusion prevention, malware defense, and SnortML machine learning to help detect and block sophisticated threats.

Unified management: Centralize policy, logging, events, and visibility across firewall enforcement points through Cisco Cloud Control.

Why Cisco Secure Firewall 6100 Series?

Performance density for demanding environments. Advanced protection without treating security inspection as a performance tradeoff. Modular scale that accommodates growth. Resilient hardware for critical infrastructure. A path to unified security operations across the hybrid mesh.

The 6100 Series is designed for organizations modernizing data center firewall infrastructure, consolidating security administration, and preparing for AI-scale traffic and distributed applications. It provides a high-performance security foundation while allowing the broader Cisco Hybrid Mesh Firewall architecture to place the right controls closer to applications, workloads, users, and devices.

Independent testing and NetSecOPEN certification

NetSecOPEN certification testing by the University of New Hampshire InterOperability Laboratory measured:

269.59

Gbps inspected HTTP

222.37

Gbps inspected HTTPS

100%

of 5,388 threat scenarios blocked

Under load, the Secure Firewall 6160 maintained 100% security effectiveness while processing mixed application traffic at up to 57.04 Gbps. However, the test tools reached capacity before the firewall, indicating additional throughput headroom.



Protects your business

Secure critical applications and infrastructure with high-performance inspection, encrypted traffic visibility, advanced threat protection, and resilient connectivity.



Protects your team

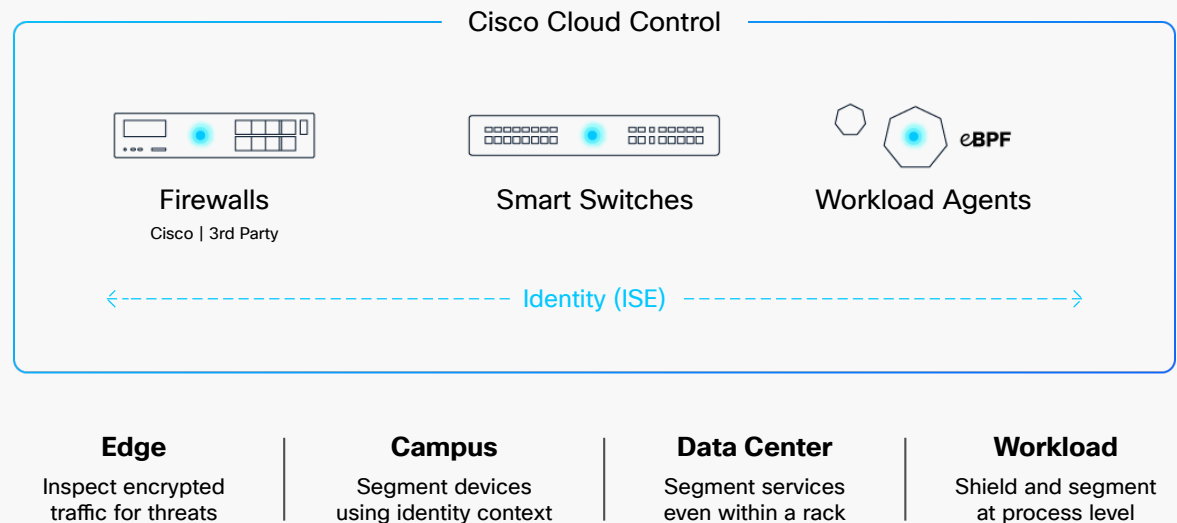
Increase security team productivity with unified management, logging, events, and visibility across enforcement points through Cisco Cloud Control.



Protects your investment

Scale the 6100 Series with clustering as traffic grows, or extend protection across network and workload environments through the Cisco Hybrid Mesh Firewall architecture.

Cisco Hybrid Mesh Firewall



Learn more

To find out more about the Cisco Secure Firewall 6100 Series, visit

<https://www.cisco.com/site/us/en/products/security/firewalls/secure-firewall-6100-series/index.html>.

To learn about the broader Cisco Hybrid Mesh Firewall products and services, visit

<https://www.cisco.com/site/us/en/solutions/security/hybrid-mesh-firewall/index.html>.

To review the full Cisco Secure Firewall 6160 NetSecOPEN certification results, visit

<https://www.netsecopen.org/certifications>.

To read a real-world deployment example from Mobile World Congress 2026, visit

<https://blogs.cisco.com/security/mwc-2026-soc>.