

Network Service Edge 3000

NSE 3000 Quick Look

- Cloud-managed with cnMaestro™
- Unified threat management
- SD-WAN Edge
- Network services: RADIUS, DHCP, DNS
- Remote connectivity: VPN with MFA



Overview

Cambium Networks introduces Network Service Edge (NSE) for delivering advanced security, routing, and SD-WAN policies for small and medium enterprises.

Model NSE3000 features two Gigabit WAN ports and four Gigabit LAN ports and offers reliable connectivity with WAN throughputs of up to 1 Gbps. NSE 3000 is an industry-leading IDS/IPS engine with advanced application and Geo-IP firewalls, a network security scanner, anti-malware protection, and SD-WAN for cutting edge application visibility and control. NSE 3000 supports high availability in active-standby mode, ensuring continuous network operation.



Security

- With a single click, enable intrusion detection or intrusion prevention and let the industry-leading IDS/IPS engine protect your network against threats. This engine supports community and paid premium rules.
- Create secure tunnels between multiple sites or connect securely to a central site with our site-to-site VPN.
- Create advanced firewall layer-3 and application-based rules to protect your network. Use Geo-IP filters to deny or allow traffic to/from specific countries.
- Audit security vulnerabilities with always-on LAN vulnerability scans and get notified when critical ones are discovered.
- Filter malware and undesired content with our DNS content filter. Select options to block from over 88+ categories of domain names. This helps you enforce CIPA guidelines for the K-12 customer segment.

Network Service Edge (NSE)

SD-WAN and Traffic Engineering:

- Set up WAN links to share traffic or configure them in an active-backup fashion.
- Share traffic on both WAN links and specify the traffic share.
- Tracks WAN link health and automatically fails over traffic to the performing link.
- Prioritize business-critical applications and restrict bandwidth for non-critical apps.
- Easily prioritize and allot reserved bandwidth for time-sensitive voice applications.

Site-to-Site and Remote Access VPN

- Enable remote workers to log in to your network securely from any device. NSE 3000 supports industry standard Wireguard, L2TP-IPSec, and IKEv2-EAP protocols for remote access VPN.
- Turn on multi-factor authentication to enhance password-based authentication. Offers MFA via Google Authenticator.
- Create secure IPSec tunnels between multiple sites with our easy to setup site-to-site VPN feature.

Analytics

- Get a comprehensive overview and security analysis of all the devices on your network via Cambium's cnMaestro cloud management platform.
- Use the intrusion prevention dashboard to gain insight on intrusion attempts. Use the insight to refine prevention policy and enhance intrusion rule sets.
- Get a network security audit of all devices on your network. Patch and remediation measures are provided to help you secure your devices
- Get deep insight into all the application traffic on your network. Use the insight to craft granular policies to prioritize and allocate sufficient bandwidth to business-critical apps.

Network Services

- Create separate networks for employees, guests, and IoT devices with ease. Our VLAN and DHCP configuration make this setup a breeze.
- Enable traffic shaping and rate-limiting policies to cap internet bandwidth for guests.
- Use the on-box RADIUS server to create user accounts and set up secure network authentication for all the users and devices on your network.
- NSE includes an on-box DNS server. This can be used to block contents granularly with 88+ categories.
- NSE supports Dynamic DNS updates for WAN interfaces. Create easy-to-remember host names to expose on-premise services.
- NSE keeps all databases current and always updated—intrusion rules, vulnerability reports, device signatures, Geo-IP databases, malware sites database.

Cloud Management

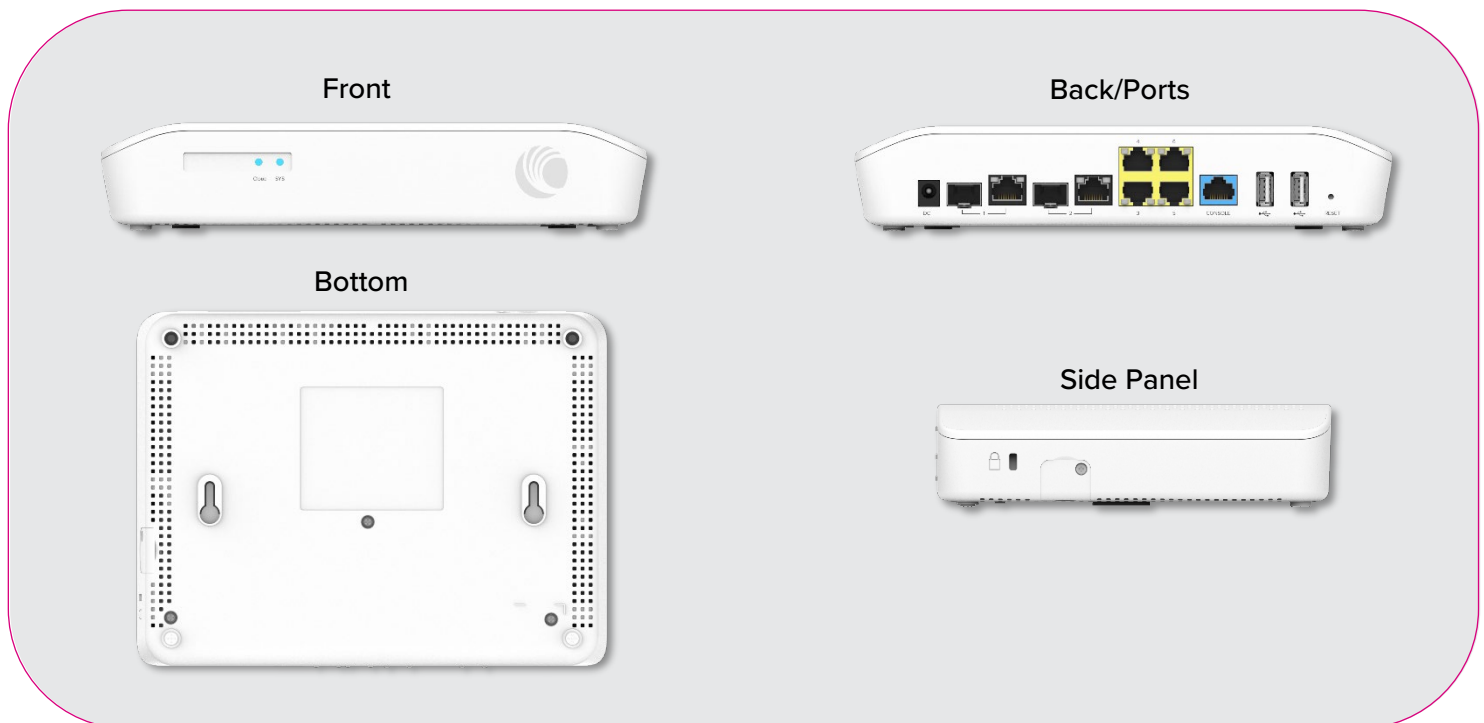
- NSE 3000 is completely managed by the easy-to-use, secure, and cloud-hosted Cambium Networks cnMaestro Network Management system. A single-pane-of-glass management system to operate and manage all Cambium enterprise products (NSE 3000, Enterprise Wi-Fi, and cnMatrix switches).
- NSE 3000 offers support for both subscription-free and subscription-based versions. The subscription-based version is supported in both cnMaestro Essentials and cnMaestro X, whereas the subscription-free version is supported only in cnMaestro Essentials. (Note: cnMaestro on-premises does not support NSE 3000).
- Zero-touch provisioning: Power on the device and have it automatically managed and configured.
- Reusable configuration groups allow easy onboarding of multiple sites.
- Dashboard widgets that give you a comprehensive overview of device and network health.
- Insight and stats on all connected devices on your network.
- Easy to consume data on intrusion attempts—severity, details, country of origin, and remedial measures.
- Network security audit of all devices on your network: Patch and remediation measures are provided to help you secure your devices.

Network Service Edge (NSE)

Specifications

Recommended Use Case	Sites and branches with up to 1,000 devices
Routed Throughput	945 Mbps* - Layer 3 forwarding throughput
Stateful Throughput	917 Mbps* - Advanced firewall throughput (NAT + AVC)
Advanced Security Throughput	911 Mbps* - Throughput with NAT + AVC + IDS + ACL
VPN Client Throughput	300 Mbps*
Site-to-Site VPN	600 Mbps* - Throughput; maximum number of IPSec tunnels = 100
WAN Ports	2 x 1 Gbps RJ45/SFP
LAN Ports	4 x 1 Gbps RJ45
Mounting	Tabletop and wall-mount options
Dimension	175.16 mm x 232.72 mm x 43 mm
Weight	0.65 kg
Max Power Consumption	22.8W
Power Supply	40W DC
LEDs	Coud connection and system indicators
Operating Temperature	0°C–40°C
Operating Humidity	10%–90%

*Throughput values are "up to" and may vary depending on system configuration.



Network Service Edge (NSE)

Security and Security Plus Feature Set

Security (No Subscription)	Security Plus (1-/3-/5-Year Subscription (NSE-SUB-3000-1/3/5))
SD-WAN <ul style="list-style-type: none"> WAN load balancing (Active-Active and Active-Backup) Flow preferences (Layer3 and Layer 7) Traffic shaping Failover policies 	All of Security
Site-to-site VPNs (hub and spoke and mesh) <ul style="list-style-type: none"> IKEv1 IKEv2 	+
Remote VPN <ul style="list-style-type: none"> LTPP-IPSec IKEv2 WireGuard 	Geo-IP firewall <ul style="list-style-type: none"> LAN to WAN WAN to LAN
Next-Gen Firewall <ul style="list-style-type: none"> Layer3 (IP-based) Layer7 (application-based) 	DNS content filtering <ul style="list-style-type: none"> 80+ categories Safe search Fast with data caches around the world
Intrusion detection and prevention <ul style="list-style-type: none"> Choice of free and commercial rule sets 	LAN vulnerability assessment
Application visibility and control	High availability <ul style="list-style-type: none"> 1+1 in Active-Backup mode
LAN services <ul style="list-style-type: none"> DHCP DNS RADIUS 	Auto VPN <ul style="list-style-type: none"> One-click setup of VPN tunnels
Cloud managed via cnMaestro	IoT device identification
	cnMaestro reports and analytics

Network Service Edge (NSE)

NSE 3000 and cnMaestro Ordering Information

Model	NSE3000 (Network Service Edge)
NSE-SUB-3000-1	NSE subscription for one NSE3000. Creates 1 Device Tier30 slot in cnMaestro X or cnMaestro Essentials. Includes Cambium Care Pro software support. 1-year subscription.
NSE-SUB-3000-3	NSE subscription for one NSE3000. Creates 1 Device Tier30 slot in cnMaestro X or cnMaestro Essentials. Includes Cambium Care Pro software support. 3-year subscription.
NSE-SU-3000-5	NSE subscription for one NSE3000. Creates 1 Device Tier30 slot in cnMaestro X or cnMaestro Essentials. Includes Cambium Care Pro software support. 5-year subscription.

Extended Warranty Ordering Information

The standard warranty for NSE 3000 is 1 year with an option to buy extended warranty for up to 4 years.

EW-E1NSE3000-WW	NSE 3000 extended warranty, 1 additional year.
EW-E2NSE3000-WW	NSE 3000 extended warranty, 2 additional years.
EW-E3NSE3000-WW	NSE 3000 extended warranty, 3 additional years.
EW-E4NSE3000-WW	NSE 3000 extended warranty, 4 additional years.

Cambium Care Advanced Add-On Ordering Information

CCADV-UPG-NSE3000-1	Cambium Care Advanced Add-On to cnMaestro: 1 year of support for 1 NSE 3000. 24x7 TAC support, software updates, and NBDS advance replacement for HW.
CCADV-UPG-NSE3000-3	Cambium Care Advanced Add-On to cnMaestro: 3 years of support for 1 NSE 3000. 24x7 TAC support, software updates, and NBDS advance replacement for HW.
CCADV-UPG-NSE3000-5	Cambium Care Advanced Add-On to cnMaestro: 5 years of support for 1 NSE 3000. 24x7 TAC support, software updates, and NBDS advance replacement for HW.

Renewal Subscription Ordering Information

NSE-RNW-3000-1	NSE subscription renewal for 1 NSE 3000. Renews 1 device Tier 30 slot in cnMaestro X or cnMaestro Essentials. Includes Cambium Care Pro software support. 1-year renewal subscription.
NSE-RNW-3000-3	NSE subscription renewal for 1 NSE 3000. Renews 1 device Tier 30 slot in cnMaestro X or cnMaestro Essentials. Includes Cambium Care Pro software support. 3-year renewal subscription.
NSE-RNW-3000-5	NSE subscription renewal for 1 NSE 3000. Renews 1 device Tier 30 slot in cnMaestro X or cnMaestro Essentials. Includes Cambium Care Pro software support. 5-year renewal subscription.

ABOUT CAMBIUM NETWORKS

Cambium Networks enables service providers, enterprises, industrial organizations, and governments to deliver exceptional digital experiences and device connectivity with compelling economics. Our ONE Network platform simplifies management of Cambium Networks' wired and wireless broadband and network edge technologies. Our customers can focus more resources on managing their business rather than the network. We make connectivity that just works.

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