Netskope One Gateway

Spec Sheet

SD-WAN and SASE Hardware Appliances

Netskope One Gateway converges SD-WAN and integrated security into a single branch platform, powered by the Netskope SASE Fabric, hybrid security, and the NewEdge Network. From compact thin-branch models to high-throughput data center appliances, the family delivers context-aware optimization for more than 85,000 applications, zero trust access to private resources, and real-time threat protection at the edge. Physical, virtual, and cloud form factors let enterprises standardize on one architecture across branch, retail, remote, and data center sites.

Highlights

SASE consolidation

Converge networking and security in one appliance and reduce branch complexity.

Application-aware SD-WAN

Context-aware path selection and optimization for more than 85,000 applications.

Zero trust access

Enforce least-privilege access to private applications from every site.

NewEdge on-ramp

Direct on-ramp to the NewEdge Network for fast, private global connectivity.

Integrated security

Inline threat protection, firewall, and web security enforced at the edge.

Digital experience

End-to-end visibility and proactive monitoring of user experience.



The Netskope One Gateway family

Top: NSG-4000.
Middle, left to right: NSG-2108CW and NSG-500.
Bottom, left to right: NSG-1500 / 2000 and NSG-200CW.

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Hardware Specifications

Small & Medium Branch Appliances

Appliance	NSG-101	NSG-200W	NSG-200CW	NSG-500	NSG-1500	NSG-2104W
Physical Specifications						
LAN/WAN interfaces	4× 1G RJ45	4× 1G RJ45	4× 1G RJ45	4× 1G RJ45 1× 1G SFP[1]	2× 1G RJ45/ SFP[1] 4× 2.5G RJ45 2× 10G SFP[1]+	1× 1G RJ45 4× 2.5G RJ45/ PoE[2]
Wi-Fi	Wi-Fi 5 (802.11ac)	Wi-Fi 6 (802.11ax)	Wi-Fi 6 (802.11ax)	Wi-Fi 6 (802.11ax)	Wi-Fi 6 (802.11ax)	Wi-Fi 6 (802.11ax)
LTE	Integrated LTE	N/A	Integrated 5G w/ eSIM & USB	N/A	N/A	N/A
Console ports	—	—	—	Micro USB	RJ-45 & Mini USB	RJ-45 & Mini USB
External USB	1x USB 3.0	1x USB 3.0	1x USB 3.0	1x USB 3.0	2x USB 3.0	1x USB 3.0 1x USB 2.0
Size (W x D x H, mm)	125 × 125 × 40	160 × 160 × 35	160 × 160 × 35	179 × 206 × 35	256 × 200 × 44	219 × 250 × 44
Mounting	DIN rail, desktop, wall mount	Desktop, wall mount	Desktop, wall mount	Desktop	Desktop, wall & rack mount	Desktop, wall & rack mount
Power input	DC-IN or PoE x1, 10-28V (24W)	12V DC jack	12V DC jack	12V @ 4A (48W) DC jack	12V DC (60W), single	12V DC (85W), single
Operating temperature (°C)	-30 to 60	0 to 40	0 to 40	0 to 40	0 to 40	0 to 40
Operating humidity	5–95% RH	5–95% RH	5–95% RH	5–95% RH	5–95% RH	5–95% RH
Storage temperature (°C)	-40 to 85	-40 to 80	-40 to 80	-40 to 70	-40 to 70	-40 to 70
Storage humidity	0–95% RH	0–95% RH	0–95% RH	0–95% RH	0–95% RH	0–95% RH
Ruggedized	I-Temp	No	No	No	No	No
Ingress protection rating	IP40	N/A	N/A	N/A	N/A	N/A
MTBF (years)	20	63.73	29.89	70.17	9.92	20.7
Performance[3]						
Site-to-site throughput (1300-byte, AES-128)	50 Mbps	250 Mbps	250 Mbps	500 Mbps	1 Gbps	2 Gbps
Site-to-site throughput (Internet Traffic IMIX[4])	20 Mbps	100 Mbps	100 Mbps	160 Mbps	500 Mbps	1 Gbps
Overlay tunnels	50	100	100	200	400	800

[1] Supported SFPs: fiber, copper.

[2] PoE+ optional configuration; contact sales for availability.

[3] Performance and scale figures are benchmark maximums. Actual results vary by traffic mix, enabled features, and topology. For deployment sizing, work with your account team to align your specific deployment needs with the current sizing guide.

[4] Internet Traffic (IMIX) performance is based on an average packet size of 417-byte payload with AES-128 encryption.

Hardware Specifications

Large Branch & Data Center Appliances

Appliance	NSG-2000	NSG-2108CW	NSG-3000	NSG-4000
Physical Specifications				
LAN/WAN interfaces	2× 1G RJ45/SFP[1] 4× 2.5G RJ45 2× 10G SFP[1]+	1× 1G RJ45 4× 2.5G RJ45/PoE[2] 2× 10G SFP[1]+	6 or 8× 1G RJ45/PoE[2] 6× 10G SFP[1]+	2× 1G RJ45 8× 10G SFP[1]+
Wi-Fi	N/A	Wi-Fi 6 (802.11ax)	N/A	—
LTE	N/A	Integrated 5G w/ eSIM	N/A	—
Console ports	RJ-45 & Mini USB	RJ-45 & Mini USB	RJ45	RJ45 / USB Type-C
External USB	2x USB 3.0	1x USB 3.0 1x USB 2.0	2x USB 3.0	2x USB 3.0
Size (W x D x H, mm)	256 × 200 × 44	219 × 250 × 44	438 × 456 × 44	438 × 550 × 44
Mounting	Desktop, wall & rack mount	Desktop, wall & rack mount	Rack mount	Rack mount
Power input	12V DC (60W), single	12V DC (85W), single	100-264V (300W), redundant	90-240V (1200W), redundant
Operating temperature (°C)	0 to 40	0 to 40	0 to 40	0 to 40
Operating humidity	5–95% RH	5–95% RH	20–90% RH	10–90% RH
Storage temperature (°C)	-40 to 70	-40 to 70	-10 to 70	-10 to 70
Storage humidity	0–95% RH	0–95% RH	5–95% RH	5–95% RH
Ruggedized	No	No	No	No
Ingress protection rating	N/A	N/A	N/A	N/A
MTBF (years)	9.92	20.7	22.5	20.81
Performance[3]				
Site-to-site throughput (1300-byte, AES-128)	2 Gbps	5 Gbps	8 Gbps	8 Gbps[6]
Site-to-site throughput (Internet Traffic IMIX[4])	800 Mbps	2 Gbps	2 Gbps	2 Gbps[6]
Overlay tunnels	800	2500	2500	2500[6]
Endpoint SD-WAN clients	4000	8000	8000	8000[6]
Recommended endpoint SD-WAN clients per hub[5]	224 – 2,000	560 – 5,000	560 – 5,000	560 – 5,000[6]

[1] Supported SFPs: fiber, copper.

[2] PoE+ optional configuration; contact sales for availability.

[3] Performance and scale figures are benchmark maximums. Actual results vary by traffic mix, enabled features, and topology. For deployment sizing, work with your account team to align your specific deployment needs with the current sizing guide.

[4] Internet Traffic (IMIX) performance is based on an average packet size of 417-byte payload with AES-128 encryption.

[5] Recommended client counts per hub are derived from the Netskope sizing guide based on PPS-modeled traffic profiles. The upper bound reflects the lightest traffic profile (SWG + NPA + BWAN + Non-VoIP). The lower bound reflects the heaviest traffic profile (BWAN + VoIP + Non-VoIP + Packet Replication + Full Tunnel with Internet Backhaul). For deployment sizing, work with your account team and reference the current sizing guide.

[6] With the Q1 2027 release, NSG-4000 site-to-site throughput will increase to 20 Gbps (1300-byte, AES-128) and 10 Gbps (Internet Traffic IMIX), overlay tunnels to 6000, and endpoint SD-WAN clients to 16000. The recommended endpoint SD-WAN clients per hub will also increase.

Note: Hardware availability varies by country; contact sales for the latest information.

Virtual & Cloud Appliances

Virtual Appliances

Virtual Appliance	NSGV ESXi[1] (2 core)	NSGV ESXi[1] (4 core)	NSGV ESXi[2] (8 core)	NSG KVM (4 core)	NSG KVM (8 core)
Memory	4 GB	8 GB	16 GB	8 GB	16 GB
Storage	32 GB	32 GB	32 GB	32 GB	32 GB
Site-to-site throughput (1300-byte)	1 Gbps	3 Gbps	5 Gbps	1.1 Gbps	1.3 Gbps
Max overlay tunnels	400	800	2400	800	2400
Endpoint SD-WAN clients	600	1200	6000	1200	6000

[1] Performance based on Intel Xeon Platinum 8358 at 2.60 GHz, VMXNET3.

[2] Performance based on Intel Xeon Gold 6330 at 2.00 GHz, VMXNET3.

Note: Performance measured with DPDK where available.

Cloud Appliances

Cloud Appliance	GCP	AWS	Azure
Instance details	e2-standard-8 8 vCPU, 32 GiB	c5.2xlarge 8 vCPU, 16 GiB	Standard D8lds v5 8 vCPU, 16 GiB
Storage	50 GB	50 GB	50 GB
Site-to-site throughput (1300-byte)	2 Gbps	2 Gbps	5 Gbps
Max overlay tunnels	2400	2400	2400
Endpoint SD-WAN clients	6000	6000	6000

Note: Performance measured with DPDK where available.

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Interested in learning more? Request a demo

Netskope (NASDAQ: NTSK), a leader in modern security and networking for the cloud and AI era, addresses the needs of both security and networking teams by providing optimized access and real-time, context-based security for the AI ecosystem inclusive of agents, applications, tools, LLMs, people, devices, and data. Thousands of customers, including more than 30 of the Fortune 100, trust the Netskope One platform, its Zero Trust Engine, and its powerful NewEdge network to reduce risk and gain full visibility and control over cloud, AI, SaaS, web, and private applications – providing security and accelerating performance without trade-offs. Learn more at netskope.com, Netskope.ai, on LinkedIn, and Instagram.

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