

NetScaler is an application security and delivery platform that helps you scale and protect your applications using data and insights to enable peak performance. Whether you're delivering applications to your customers, your workforce, or both, NetScaler helps you do it reliably and securely.

NetScaler is built on a single operating system, so no matter which ADC form factors you choose — hardware or software or a mix — you'll manage them from one place. The operational consistency and deep observability you get with NetScaler makes it easier to apply consistent security policies and to troubleshoot faster.

With Citrix Universal Hybrid Multi-Cloud License and Citrix Platform License, you can reallocate capacity to wherever you need it, whenever you need it, no matter where you choose to deploy your ADCs — on-premises or public cloud or both — your NetScaler subscription price will remain the same

NetScaler form factors

NetScaler MPX

NetScaler MPX is a software model that provides powerful application delivery and load balancing with options for high performance web application security and SSL offload support.

NetScaler SDX

NetScaler SDX introduces fully isolated multi-tenant support on a single appliance for application workloads

NetScaler resources

Citrix Universal Hybrid Multi-Cloud License and Citrix Platform License (CPL) gives you the flexibility to reallocate throughput and instance licenses across your hybrid cloud environments.

The ability to reallocate NetScaler resources allows you to automatically scale or move your ADCs along with your compute infrastructure to meet application demand. This gives you a more agile and cost-effective way to manage application delivery.

and groups. Deploying multiple virtual instances of NetScaler on one hardware appliance allows for the consolidation of multiple load balancers and application rollout.

NetScaler VPX

NetScaler VPX is a virtual form factor that provides capabilities typically offered only on specialized, highend network devices. Deploy NetScaler VPX on your preferred hypervisor and achieve high SSL performance with no hardware acceleration.

NetScaler CPX

NetScaler CPX is a containerized form factor that provides load balancing and traffic management for your containerized applications. You can deploy one or more NetScaler CPXs as standalone instances on a Docker host.

NetScaler BLX

NetScaler BLX for bare metal runs as a Linux process on your hardware of choice. Because NetScaler BLX is a lightweight software package with no hypervisor or container overhead, you get extraordinarily fast performance. And there's no additional cost for hypervisor software.

NetScaler for public cloud

NetScaler is easy to deploy across on-premises and public cloud environments including AWS, Azure, and Google Cloud Platform. Purchase licenses from the cloud marketplaces or simply bring your own.

NetScaler FIPS models

NetScaler offers specific physical and virtual form factors with FIPS 140-2 certification and compliance to meet the stringent compliance mandates and security requirements. See NetScaler FIPS data sheet.

Key NetScaler links

Compare features by subscription Engage with the NetScaler Community Leverage NetScaler Github NetScaler pooled capacity has four components:

- 1. NetScaler instances come in two types: software instances and zero-capacity hardware.
- Softwareinstances:YoucandeployNetScaleras software through virtual machine (VPX), container (CPX), and bare metal (BLX) instances.
- Zero-capacity hardware: When NetScaler is deployed as hardware using Citrix Universal Hybrid Multi-Cloud License or Citrix Platform License, it is referred to as "zero-capacity hardware." This hardware cannot function without applying appropriate throughput capacity. The designation "z" is used to denote zerocapacity hardware appliances.
- 2. Instance pool: The instance pool defines the total number of NetScaler instances available via Citrix Universal Hybrid Multi-Cloud License or Citrix Platform License. With both of these licenses, you are allotted unlimited instances.
- **3. Throughput pool:** From a single pool, you can dynamically allocate throughput among all NetScaler ADCs as needed to meet your changing business requirements.

4. NetScaler Console (formerly NetScaler ADM):

Citrix Universal Hybrid Multi-Cloud License and Citrix
Platform License use NetScaler Console (Service or OnPremises) to deploy software licenses for instances and
throughput. When NetScaler Console checks
out licenses from instance and throughout resource
pools, the chosen NetScaler form factor and model will
predetermine:

- The minimum throughput and the number of instances that a NetScaler appliance must check out before being functional
- Them aximum throughput and the number of instances that a NetScaler can support
- The minimum throughput unit for each throughput check-out

Zero-capacity hardware

NetScaler hardware	MPX/SDX 16000Z	MPX/SDX 9100Z		
Attributes				
Memory	128 GB, 256 GB	64 GB		
Ethernet ports ¹	4 x 100G QSFP28 8 x 25GbE SFP28	8 x 25GbE SFP28		
Transceivers support	QSFP28: 50/100GbE QSFP28 SR4, LR4, AoC, DAC 40GbE QSFP+ SR4, LR4, BiDi, AoC, DAC 25/10GbE SFP28 SR (Adapter required) 10/1GbE SFP+: SR, LR (Adapter required) SFP28: 25/10GbE SFP28 SR, DAC 10/1GbE SFP+ SR, LR 10GbE DAC 1GBase-T	SFP28: 25/10GbE SFP28 SR, DAC 10/1GbE SFP+ SR, LR 10GbE DAC 1GBase-T		
Performance				
System throughput (Gbps) [L7 throughput]	30-250	10-95		
L7 HTTP requests/sec	Up to 7,500,000	Up to 3,000,000		
SSL transactions/sec (2k key certificates) ²	Up to 280,000	Up to 90,000		
2 ECDHE transactions/sec	Up to 125,000	Up to 39,000		
SSL throughput (Gbps)	Up to 130	Up to 55		
Compression throughput (Gbps)	Up to 43	Up to 12		
ICA Proxy/SSL VPN concurrent users	Up to 30,000	Up to 17,000		
SDX instances	1-55	1-7		
Mechanical, environmental, and regulator	у			
Power supplies	2	2		
Input voltage, frequency range	100-240 VAC full range, 50-60 Hz 7.0-2.6 A	100-240 VAC full range, 50-60 Hz		
Optional DC power supply	No	No		
Power supply	850W	450W		
Typical, max power consumption	465W, 584W	250W, 282W		
Weight (lb)	56	37		
Height	2U	1U		
Width	EIA 310-D for 19	9-inch racks		
Depth	71.1 cm (28 in)	61 cm; 24 in		
Operating temperature	0–45°C (32-113°F)	0–45°C (32–113°F)		
Allowed relative humidity	5%–95%, Non-condensing	5%–95%, Non-condensing		
Safety certifications	IEC/EN/UL/CSA/AS/NZS 62368-1 and 60950-1			
Electromagnetic emissions certifications & susceptibility standard	US (FCC (Part 15 Class A)), Canada (ICES-003), EU (CE (EN 55032/55035)), Australia/NZ (RCM), Japan (VCCI), Korea (KCC), Taiwan (BSMI), China (CCC), India (BIS), EAEU (EAC), Saudi Arabia (CITC), Brazil (Anatel), South Africa (ICASA), Mexico (NOM), Egypt (NTRA)			
Regulatory compliance	RoHS, WEEE, REACH			
NetScaler compliance regulatory model	2U2P3A	1U2P2A		

Notes

- $1 \ \ \text{Published Ethernet interfaces compliant per IEEE802.3-2002/2005/2008/2012}.$
- 2 Performance varies depending on ciphers deployed. Contact your NetScaler sales representative for details.
- $3\,$ All 16000 and 9100 series have 80plus platinum rating for power supply.

Zero-capacity hardware

Attributes Memory 256 GB Ethernet ports¹ 4 x 500E QSFP28; 16 x 250E SFP28 AUGE QSFP28, The control of the ports¹ 50GE 0SFP28 port-50GE Prott-50GE/T00GE QSFP28. SR4 AGGE CSFP28. SR LA RAdapter required) 100E SFP28. SR, LR RAdapter required) 100E SFP28. SR, LR RAdapter required) 250E SFP28. SR LR RAdapter required) 250E SFP28. SR LR RAdapter required) 250E SFP28. SR, LR RAdapter required) 250E SFP28. SR LR RAdapter required) 250E SFP28. SR LR RAdapter required) 250E SFP28. SR LR RAdapter required) 250E SFP28. SR LR RAdapter required) 250E SFP28. SR LR RAdapter required) 250E SFP28. SR LR RAdapter required) 250E SFP28. SR LR RAdapter required) 250E SFP28. SR LR RAdapter required) 250E SFP28. SR LR RAdapter required) 250E SFP28. SR LR RAdapter required) 250E SFP28. SR LR RAdapter required) 250E SFP28. SR LR RAdapter required) 250E SFP28. SR LR RAdapter required) 250E SFP28. SR LR RAdapter required) 250E SFP28. SR LR RAdapter required) 25 EVEDHE transactions/sec Up to 220.000 1CA Proxy/SSL VP Roducretal Language (SP) SEC VP RADAPTER	NetScaler hardware	MPX/SDX 26000Z-50S		
Ethernet ports	Attributes			
Social Content ports Social Content ports	Memory	256 GB		
Transceivers support	Ethernet ports ¹			
Transceivers support Single Singl		16 x 25GE SFP28		
Transceivers support SPP28: SR (Adapter required) SPP28: SR (Adapter required) SPP28: SR (Adapter required) 25GE SPP28 port- 25GE SPP28 port- 25GE SPP28: SR 10GE SPP+: SR, LR (Adapter required) 25GE SPP28: SR 10GE SPP+: SR, LR (Adapter required) 25GE SPP28: SR 10GE SPP+: SR, LR (Adapter required) 25GE SPP28: SR 10GE SPP+: SR, LR SPP28: SR 10GE SPP28: SR 10GE SPP+: SR, LR SPP28: SR 10GE SPP28: SR 10G		·		
Transceivers support SFP28: SR (Adapter required) 10GE SFP+: SR, LR (Adapter required) 25GE SFP28 port 25GE SFP28 port 25GE SFP28 port 25GE SFP28 sR 10GE SFP+: SR, LR Performance System throughput (Gbps) [L7 throughput] 100–200 L7 HTTP requests/sec Up to 5,700,000 SSL transactions/sec (2k key certificates)² Up to 230,000 SSL throughput (Gbps) Up to 120 Compression throughput (Gbps) Up to 22 20,000 ICA Proxy/SSL VPN concurrent users 1-115 SDX instances 1-55 Mechanical, environmental, and regulatory Power supplies 2 Input voltage, frequency range 100–120V/200–240V, 50–60Hz Optional DC power supply No Power supply No Power supply 1200W Typical, max power consumption 670W, 809W Weight (Ib) 48 Height 2U Width EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets Depth 7.1.1 cm (28 in) Operating temperature 0–45°C (32–113°F) Allowed relative humidity 58–95%, Non-cond				
10GE SFP+: SR, LR (Adapter required) 25GE SFP28 port. 25GE SFP28 SR 10GE SFP+: SR, LR	Transpolitors support			
Performance System throughput (Gbps) [L7 throughput] 100–200	Transceivers support			
SFP28: SR 10GE SFP+: SR, LR				
Performance System throughput (Gbps) [L7 throughput] 100–200 L7 HTTP requests/sec Up to 5,700,000 SSL transactions/sec (2k key certificates)² Up to 522,000 2 ECDHE transactions/sec Up to 230,000 SSL throughput (Gbps) Up to 120 Compression throughput (Gbps) Up to 22 20,000 ICA Proxy/SSL VPN concurrent users 1-115 SDX instances 1-55 Mechanical, environmental, and regulatory Power supplies Power supplies 2 Input voltage, frequency range 100–120V/200–240V, 50–60Hz Optional DC power supply No Power supply 1200W Typical, max power consumption 670W, 809W Weight (Ib) 48 Height 2U Wridth EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets Depth 71.1 cm (28 in) Operating temperature 0–45°C (32–113°F) Allowed relative humidity 5%–95%, Non-condensing Safety certifications IEC/EN/LI/CSA/AS/NZS 62368-1 and 60950-1				
L7 HTTP requests/sec	Performance			
SSL transactions/sec (2k key certificates)² Up to 522,000 2 ECDHE transactions/sec Up to 230,000 SSL throughput (Gbps) Up to 120 Compression throughput (Gbps) Up to 22 2,000 ICA Proxy/SSL VPN concurrent users 1-115 SDX instances 1-55 Mechanical, environmental, and regulatory Power supplies 2 Input voltage, frequency range 100-120V/200-240V, 50-60Hz Optional DC power supply No Power supply 1200W Typical, max power consumption 670W, 809W Weight (Ib) 48 Height 2U Width EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets Depth 71.1 cm (28 in) Operating temperature 0-45°C (32-113°F) Allowed relative humidity 5%-95%, Non-condensing Safety certifications IEC/EN/UL/CSA/AS/NZS 62368-1 and 60950-1 US (ECC (Part 15 Class A)) Canada (ICES-003), EU (CF (EN 55035)), Australia/INZ	System throughput (Gbps) [L7 throughput]	100–200		
2 ECDHE transactions/sec Up to 230,000 SSL throughput (Gbps) Up to 120 Compression throughput (Gbps) Up to 22 20,000 ICA Proxy/SSL VPN concurrent users 1-115 SDX instances 1-55 Mechanical, environmental, and regulatory Power supplies 2 Input voltage, frequency range 100–120V/200–240V, 50–60Hz Optional DC power supply No Power supply 1200W Typical, max power consumption 670W, 809W Weight (Ib) 48 Height 2U Width EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets Depth 71.1 cm (28 in) Operating temperature 0-45°C (32–113°F) Allowed relative humidity 5%-95%, Non-condensing Safety certifications IEC/EN/UL/CSA/AS/NZS 62368-1 and 60950-1 US (ECC (Part 15 Class A)) Capada (ICES-003), EU (CE (EN 55032/55035)), Australia/IN/V	L7 HTTP requests/sec	Up to 5,700,000		
SSL throughput (Gbps) Compression throughput (Gbps) Up to 22 20,000 ICA Proxy/SSL VPN concurrent users 1-115 SDX instances 1-55 Mechanical, environmental, and regulatory Power supplies 2 Input voltage, frequency range 100–120V/200–240V, 50–60Hz Optional DC power supply No Power supply 1200W Typical, max power consumption 670W, 809W Weight (Ib) 48 Height 2U Width EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets Depth 71.1 cm (28 in) Operating temperature 0–45°C (32–113°F) Allowed relative humidity 5%-95%, Non-condensing Safety certifications IEC/EN/UL/CSA/AS/NZS 62368-1 and 60950-1	SSL transactions/sec (2k key certificates) ²	Up to 522,000		
Compression throughput (Gbps) Up to 22 20,000 ICA Proxy/SSL VPN concurrent users 1-115 SDX instances 1-55 Mechanical, environmental, and regulatory Power supplies 2 Input voltage, frequency range 100–120V/200–240V, 50–60Hz Optional DC power supply No Power supply 1200W Typical, max power consumption 670W, 809W Weight (Ib) 48 Height 2U Width EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets Depth 71.1 cm (28 in) Operating temperature 0-45°C (32–113°F) Allowed relative humidity 5%-95%, Non-condensing Safety certifications IEC/EN/UL/CSA/AS/NZS 62368-1 and 60950-1 US (FCC (Part 15 Class A)) Canada (ICES-003), EU (CE (EN 55032/55035)) Australia/INZ	2 ECDHE transactions/sec	Up to 230,000		
ICA Proxy/SSL VPN concurrent users 1-115 SDX instances 1-55 Mechanical, environmental, and regulatory Power supplies 2 Input voltage, frequency range 100–120V/200–240V, 50–60Hz Optional DC power supply No Power supply 1200W Typical, max power consumption 670W, 809W Weight (lb) 48 Height 2U Width EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets Depth 71.1 cm (28 in) Operating temperature 0–45°C (32–113°F) Allowed relative humidity 5%-95%, Non-condensing Safety certifications IEC/EN/UL/CSA/AS/NZS 62368-1 and 60950-1 US (ECC (Part 15 Class A)) Canada (ICES-003), EU (CE (EN 55032/55035)) Australia/NZ	SSL throughput (Gbps)	Up to 120		
SDX instances 1-55 Mechanical, environmental, and regulatory Power supplies 2 Input voltage, frequency range 100–120V/200–240V, 50–60Hz Optional DC power supply No Power supply 1200W Typical, max power consumption 670W, 809W Weight (lb) 48 Height 2U Width EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets Depth 71.1 cm (28 in) Operating temperature 0–45°C (32–113°F) Allowed relative humidity 5%-95%, Non-condensing Safety certifications IEC/EN/UL/CSA/AS/NZS 62368-1 and 60950-1	Compression throughput (Gbps)	Up to 22 20,000		
Mechanical, environmental, and regulatory Power supplies 2 Input voltage, frequency range 100–120V/200–240V, 50–60Hz Optional DC power supply No Power supply 1200W Typical, max power consumption 670W, 809W Weight (lb) 48 Height 2U Width EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets Depth 71.1 cm (28 in) Operating temperature 0–45°C (32–113°F) Allowed relative humidity 5%-95%, Non-condensing Safety certifications IEC/EN/UL/CSA/AS/NZS 62368-1 and 60950-1 US (ECC (Part 15 Class Al) Canada (ICES-003), EU (CE (EN 55032/55035)) Australia/NZ	ICA Proxy/SSL VPN concurrent users	1-115		
Power supplies 2 Input voltage, frequency range 100–120V/200–240V, 50–60Hz Optional DC power supply No Power supply 1200W Typical, max power consumption 670W, 809W Weight (lb) 48 Height 2U Width EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets Depth 71.1 cm (28 in) Operating temperature 0–45°C (32–113°F) Allowed relative humidity 5%-95%, Non-condensing Safety certifications IEC/EN/UL/CSA/AS/NZS 62368-1 and 60950-1 US (ECC (Part 15 Class A)) Canada (ICES-003) EU (CE (EN 55032/55035)) Australia/NZ	SDX instances	1-55		
Input voltage, frequency range 100–120V/200–240V, 50–60Hz Optional DC power supply No Power supply 1200W Typical, max power consumption 670W, 809W Weight (lb) 48 Height 2U Width EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets Depth 71.1 cm (28 in) Operating temperature 0–45°C (32–113°F) Allowed relative humidity 5%-95%, Non-condensing Safety certifications IEC/EN/UL/CSA/AS/NZS 62368-1 and 60950-1 US (ECC (Part 15 Class A)) Canada (ICES-003) EU (CE (EN 55032/55035)) Australia/NZ	Mechanical, environmental, and regulator	у		
Optional DC power supply 1200W Typical, max power consumption 670W, 809W Weight (lb) 48 Height 2U Width EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets Depth 71.1 cm (28 in) Operating temperature 0-45°C (32–113°F) Allowed relative humidity 5%-95%, Non-condensing Safety certifications IEC/EN/UL/CSA/AS/NZS 62368-1 and 60950-1 US (FCC (Part 15 Class A)) Canada (ICES-003) FU (CE (EN 55032/55035)) Australia/NZ	Power supplies	2		
Power supply 1200W Typical, max power consumption 670W, 809W Weight (lb) 48 Height 2U Width EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets Depth 71.1 cm (28 in) Operating temperature 0-45°C (32–113°F) Allowed relative humidity 5%-95%, Non-condensing Safety certifications IEC/EN/UL/CSA/AS/NZS 62368-1 and 60950-1 US (ECC (Part 15 Class A)) Canada (ICES-003), EU (CE (EN 55032/55035)) Australia/NZ	Input voltage, frequency range	100-120V/200-240V, 50-60Hz		
Typical, max power consumption 670W, 809W Weight (lb) 48 Height 2U Width EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets Depth 71.1 cm (28 in) Operating temperature 0–45°C (32–113°F) Allowed relative humidity 5%-95%, Non-condensing Safety certifications IEC/EN/UL/CSA/AS/NZS 62368-1 and 60950-1 US (FCC (Part 15 Class A)) Canada (ICES-003), FU (CF (FN 55032/55035)) Australia/NZ	Optional DC power supply	No		
Weight (lb) Height 2U Width EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets Depth 71.1 cm (28 in) Operating temperature 0-45°C (32–113°F) Allowed relative humidity 5%-95%, Non-condensing Safety certifications IEC/EN/UL/CSA/AS/NZS 62368-1 and 60950-1 US (ECC (Part 15 Class A)) Canada (ICES-003), EU (CE (EN 55032/55035)) Australia/NZ	Power supply	1200W		
Height 2U Width EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets Depth 71.1 cm (28 in) Operating temperature 0–45°C (32–113°F) Allowed relative humidity 5%-95%, Non-condensing Safety certifications IEC/EN/UL/CSA/AS/NZS 62368-1 and 60950-1 US (FCC (Part 15 Class A)) Canada (ICES-003), FU (CF (FN 55032/55035)) Australia/NZ	Typical, max power consumption	670W, 809W		
Width EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets Depth 71.1 cm (28 in) Operating temperature 0–45°C (32–113°F) Allowed relative humidity 5%-95%, Non-condensing Safety certifications IEC/EN/UL/CSA/AS/NZS 62368-1 and 60950-1 US (FCC (Part 15 Class A)) Canada (ICES-003), FU (CF (FN 55032/55035)) Australia/NZ	Weight (lb)	48		
Depth 71.1 cm (28 in) Operating temperature 0–45°C (32–113°F) Allowed relative humidity 5%-95%, Non-condensing Safety certifications IEC/EN/UL/CSA/AS/NZS 62368-1 and 60950-1 US (FCC (Part 15 Class A)) Canada (ICES-003) FU (CF (FN 55032/55035)) Australia/NZ	Height	2U		
Operating temperature 0–45°C (32–113°F) Allowed relative humidity 5%-95%, Non-condensing Safety certifications IEC/EN/UL/CSA/AS/NZS 62368-1 and 60950-1 US (FCC (Part 15 Class A)) Canada (ICES-003), FU (CF (FN 55032/55035)) Australia/NZ	Width	EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets		
Allowed relative humidity 5%-95%, Non-condensing Safety certifications IEC/EN/UL/CSA/AS/NZS 62368-1 and 60950-1 US (FCC (Part 15 Class A)) Canada (ICES-003) FU (CF (FN 55032/55035)) Australia/NZ	Depth	71.1 cm (28 in)		
Safety certifications IEC/EN/UL/CSA/AS/NZS 62368-1 and 60950-1 US (FCC (Part 15 Class A)) Canada (ICES-003) FU (CF (FN 55032/55035)) Australia/NZ	Operating temperature	0–45°C (32–113°F)		
US (FCC (Part 15 Class A)) Canada (ICES-003) FU (CF (FN 55032/55035)) Australia/NZ	Allowed relative humidity	5%-95%, Non-condensing		
US (FCC (Part 15 Class A)), Canada (ICES-003), FU (CF (FN 55032/55035)), Australia/NZ	Safety certifications	IEC/EN/UL/CSA/AS/NZS 62368-1 and 60950-1		
Flectromagnetic emissions certifications &	Electromagnetic emissions certifications & susceptibility standard	US (FCC (Part 15 Class A)), Canada (ICES-003), EU (CE (EN 55032/55035)), Australia/NZ (RCM Japan (VCCI), Korea (KCC), Taiwan (BSMI), China (CCC), India (BIS), EAEU (EAC), Saudi Arabia (CITC), Brazil (Anatel), South Africa (ICASA), Mexico (NOM), Egypt (NTRA)		
Regulatory compliance RoHS, WEEE, REACH 2U1P2A	Regulatory compliance			
NetScaler compliance regulatory model 2U2P3A	NetScaler compliance regulatory model	2U2P3A		

Notes

- $1 \ \ \text{Published Ethernet interfaces compliant per IEEE802.3-2002/2005/2008/2012}.$
- 2 Performance varies depending on ciphers deployed. Contact your NetScaler sales representative for details.
- $3\,$ All 26000-50S and 5900 series have 80plus gold rating for power supply.

NetScaler software

NetScaler VPX for on-premises							
Performance range	Minimum memory ¹	vCPUs ²	ESXi	KVM	XenServer	Hyper-V	Recommended network driver
41 Gbps - 100 Gbps	2GB	2–20	•	•			PCI passthrough
26 Gbps - 40 Gbps	2GB	2–20	•	•	•		SRI-IOV
16 Gbps - 25 Gbps	2GB	2–16	•	•	•		
11 Gbps - 15 Gbps	2GB	2–12	•	•	•		VMXNET3 or SR-IOV4
9Gbps-10Gbps	2GB	2–10	•	•	•		VIVIXINE 13 OF SR-IOV4
4Gbps-8Gbps	2GB	2–6	•	•	•		· VMXNET3 or paravirtualization
10Mbps-3Gbps	2GB	2–4	•	•	•	•	

Performance⁴	Minimum	Maximum
System throughput	10 Mbps	100 Gbps
SSL transactions/sec (2k key certificates)	1,100	20,000
SSL ECDHE transactions/sec (2k key certificates)	880	17,280
SSL throughput	10 Mbps	30 Gbps

More info: NetScaler VPX production documentation

 $\label{lem:lem:netScaler} \textbf{NetScaler for Public Cloud: AWS, Azure, and Google Cloud Platform}$

Note:

Hypervisor versions: For details on hypervisor support, visit the Support matrix and usage guidelines on the NetScaler documentation site.

- 1. For the optimal performance, irrespective of the license, we recommend 4 GB memory per vCPU (e.g., for a VPX with 6 vCPUs, we recommend having 24GB memory allocated).
- $2. \ \ Processors supported: IntelVTx and AMD processors on ESX if rom 13.1-4. xrelease.$
- 3. VMXNET3 is supported on ESXi versions only.
- 4. Performance validated for XenServer using SR-IOV only.
- 5. For each VPX, one vCPU will be allotted to MGMT and all others are PE(s).

NetScaler software

NetScaler CPX for containers					
Model	Minimum memory	vCPUs	Throughput	Supported contain	er managers
CPX	1 GB	1–7	1–10 Gbps	 Docker version 1.12 and above Kubernetes Red Hat OpenShift Amazon Elastic Kubernetes Service (El Azure Kubernetes Service (AKS) Google Kubernetes Engine (GKE) Rancher Pivotal Container Service (PKS) 	
Model		1 Core	1 Core (Sidecar CPX)	3 Cores	7 Cores
System resources					
Maximum vCPUs 1 1	3 7	1	1	3	7
Maximum memory		2	1	6	14
Performance ¹					
HTTP throughput (Gb	ps)²	4.6	4.6	6.5	11.3
SSL 2k throughput (G	bps)	1.17	1.17	2.07	5.4
HTTP requests/sec		193,500	193,500	303,300	577,800
SSL transactions/sec	(2k key certificates)	1,125	1,197	2,250	6,520

More info: NetScaler CPX production documentation

SSL transactions/sec (ECDHE- RSA[2k])

Note:

1,004

 $^{2.\ 2} This is network I/O bound performance. You may achieve higher performance based on packet processing size.$

NetScaler BLX for bare metal					
BLX models	Minimum memory	vCPUs	Throughput	Supported container managers	
Non-DPDK	4 GB	1–28	1–12 Gbps	CentOS, Oracle Linux, Ubuntu Linux, Red Hat Enterprise Linux (RHEL), Linux, Amazon Linux	
DPDK	4 GB	1–28	1–100 Gbps	CentOS, Oracle Linux, Ubuntu Linux, Red Hat Enterprise Linux (RHEL), Linux, Amazon Linux	

1,020

1,962

3,987

More info: NetScaler BLX production documentation

Note: All BLX vCPUs are allocated as PEs.

^{1.} Network Driver: 2x Xeon CPU E5-2687W v3 20 Physical Cores @ 3.0 GHz, OS: Centos 7.6, CPX version: 13.0-39.4, NIC: 2x40 Gbps XL710 (Dual Port).

NetScaler Software Models (Fixed Capacity section)

NetScaler models	MPX 9120 Premium edition	MPX 9110 Advanced edition	MPX 9105 Premium edition
Attributes			
Memory	64 GB	64 GB	64 GB
Performance			
System throughput	20	10	5
L7 HTTP request/second	1,600,000	1,400,000	1,200,000
SSL transactions/second (2k key certificates) ²	25,000	15,000	10,000
EDCHE transactions/second	11,000	6,900	5,000
SSL throughput (Gbps)	20	10	5
Compression throughput (Gbps)	6	5	4
ICA Proxy concurrent users	14,000	12,000	10,000

NetScaler Software Models (Fixed Capacity section)

NetScaler models	SDX 16060 Premium edition	SDX 16030 Premium edition
Attributes		
Memory	256 GB	256 GB
Performance		
System throughput	60	30
L7 HTTP request/second	5,000,000	4,600,000
SSL transactions/second (2k key certificates) ²	125,000	52,000
EDCHE transactions/second	54,000	22,000
SSL throughput (Gbps)	60	30
Compression throughput (Gbps)	26	22
ICA Proxy concurrent users	30,000	20,000
Included instances (on SDX models)	40	20

NetScaler Software Models (Fixed Capacity section)

NetScaler models	MPX/SDX 8930	MPX/SDX 8920
Attributes		
Memory	32 GB	32 GB
Performance		
System Throughput (Gbps) [L4/L7 Throughput]	30	20
L4/L7 HTTP Requests/sec	2,100,000	1,700,000
L4 Connections/sec	1,800,000	1,200,000
L4 Concurrent Sessions	15,000,000	15,000,000
SSL Transactions/sec (2K Key Certificates) ²	40,000	22,000
ECDHE Transactions/sec ⁴	16,000	10,000
SSL Throughput (Gbps)	25	20
Compression Throughput (Gbps)	4.8	4
ICA Proxy/SSL VPN Concurrent Users	10,000	10,000
Included Instances, Maximum Instances (on SDX Platforms)	2,7	2,7

NetScaler Software Models (Fixed Capacity section)

NetScaler models	MPX 8910	MPX 8905
Attributes		
Memory	32 GB	32 GB
Performance		
System Throughput (Gbps) [L4/L7 Throughput]	10	5
L4/L7 HTTP Requests/sec	1,400,000	990,000
L4 Connections/sec	800,000	600,000
L4 Concurrent Sessions	14,000,000	13,000,000
SSL Transactions/sec (2K Key Certificates) ²	13,000	8,000
ECDHE Transactions/sec ⁴	6,000	4,000
SSL Throughput (Gbps)	10	5
Compression Throughput (Gbps)	3.5	2.5
ICA Proxy/SSL VPN Concurrent Users	10,000	10,000
Included Instances, Maximum Instances (on SDX Platforms)	N/A	N/A

NetScaler Software Models (Fixed Capacity section)

NetScaler models	MPX 5910	MPX 5905	MPX 5901
Attributes			
Memory	16 GB	16 GB	16 GB
Performance			
System Throughput (Gbps) [L4/L7 Throughput]	10	5	1
L4/L7 HTTP Requests/sec	900,000	700,000	400,000
SSL Transactions/sec (2K Key Certificates) ²	12,000	6,000	4,000
ECDHE Transactions/sec	6,000	3,000	1,700
SSL Throughput (Gbps)	8	5	1
Compression Throughput (Gbps)	2.5	1.5	1
ICA Proxy/SSL VPN Concurrent Users	5,000	5,000	5,000
Included Instances, Maximum Instances (on SDX Platforms)	N/A	N/A	N/A

NetScaler Software Models (Fixed Capacity section)

NetScaler models	VPX 1 Advanced	VPX 5 Premium	VPX 5 FIPS Premium
Attributes	See page 5		



Feature	Advanced edition	Premium edition
Application availability		
L4 load balancing & L7 content switching	•	•
Microsoft SQL load balancing •	•	•
AppExpert rate controls	•	•
IPv6 support	•	•
Traffic domains	•	•
Subscriber-aware traffic steering	•	•
Global server load balancing (GSLB)	•	•
Carrier-grade network address translation (CGNAT)	•	•
Dynamic routing protocols	•	•
Surge protection & priority queueing	•	•
Clustering	•	•
Application acceleration		
Client & server TCP optimizations	•	•
Cache redirection	•	•
AppCompress	•	•
AppCache		•

Feature	Advanced edition	Premium edition
	Advanced edition	Premium edition
Application security		
L4 DoS defenses	•	•
L7 Dos defenses	•	•
L7 rewrite & responder	•	•
NetScaler Gateway Connector for Exchange ActiveSync	•	•
AAA for traffic management	•	•
NetScaler Web App Firewall (WAF)		•
Bot management		•
IP reputation		•
nFactor authentication	•	•
Content inspection	•	•
SSL forward proxy		•
Front-end optimization		
Content layout	•	•
Domain sharding	•	•
Image optimization	•	•
Style sheets & JavaScript optimization	•	•
TCP protocol optimization		
Multi-path TCP	•	•
BIC & Cubic TCP	•	•
Simple manageability		
NetScaler Application Delivery Management	•	•
AppExpert visual policy builder	•	•
Action analytics	•	•
AppExpert service callouts, templates, & visualizers	•	•
Role-based & AAA administration	•	•
Configuration wizards	•	•
Native Citrix web interface	•	•

Feature	Advanced edition	Premium edition
Application security		
NetScaler gateway	•	•
Federated identity	•	•
One URL/SSO using SAML 2.0		•
Centralized policy management (SmartControl)	•	•
Stateless RDP proxy	•	•
Microsoft Intune support	•	•
PCoIP support	•	•
Cluster for ICA proxy (striped)	•	•
Monitor Citrix Virtual Apps & Desktops traffic (real time)		•
Monitor Citrix Virtual Apps & Desktops traffic (historical)	•	•
Monitor NetScaler gateway traffic (real time)		•
Monitor NetScaler gateway traffic (historical)	•	•
Broad client support for plugins	•	•
Customizable web portal	•	•
SSL VPN remote access	•	•
ICA proxy to Citrix Virtual Apps & Desktops	•	•
Contextual policies for Citrix Virtual Apps & Desktops (SmartAccess)	•	•
Endpoint analysis	•	•
Secure browser-only access (CVPN)	•	•
Always-on	•	•
Integration with Citrix StoreFront	•	•