

NetScaler Data Sheet

Enabling high-performance multi-cloud application delivery

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 physical form factor that provides powerful hardware-based 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 <u>AWS</u>, <u>Azure</u>, and <u>Google Cloud Platform</u>. 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.
- Software instances: You can deploy NetScaler as 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
 On-Premises) 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
- The maximum 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	
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 regulatory			
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-inc	ch 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 623	68-1 and 60950-1	
Electromagnetic emissions certifications & susceptibility standard	US (FCC (Part 15 Class A)), Canada (ICES-003), EU (CE Japan (VCCI), Korea (KCC), Taiwan (BSMI), China (CC (CITC), Brazil (Anatel), South Africa (ICASA	C), India (BIS), EAEU (EAC), Saudi Arabia	
Regulatory compliance	RoHS, WEEE, REACH		
NetScaler compliance regulatory model	2U2P3A	1U2P2A	

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

NetScaler hardware	MPX/SDX 26000Z-50S	MPX 5900Z		
Attributes				
Memory	256 GB	16 GB		
Ethernet ports ¹	4 x 50GE QSFP28; 16 x 25GE SFP28	2 x 10GE SFP; 6 x 10/100/1000 CU		
Transceivers support	50GE QSFP28 port- 50GE/100GE QSFP28: SR4 40GE QSFP+: SR4 25GE SFP28: SR (Adapter required) 10GE SFP+: SR, LR (Adapter required) 25GE SFP28 port- 25GE SFP28: SR 10GE SFP+: SR, LR	10GE SFP+: SR, LR; 1GE SFP: CU		
Performance				
System throughput (Gbps) [L7 throughput]	100–200	1-10		
L7 HTTP requests/sec	Up to 5,700,000	Up to 900,000		
SSL transactions/sec (2k key certificates) ²	Up to 522,000	Up to 12,000		
ECDHE transactions/sec	Up to 230,000	Up to 6,000		
SSL throughput (Gbps)	Up to 120	Up to 8		
Compression throughput (Gbps)	Up to 22	Up to 2.5		
ICA Proxy/SSL VPN concurrent users	20,000	5,000		
SDX instances	1-115	N/A		
Mechanical, environmental, and regulatory				
Power supplies	2	1 (2nd optional)		
Input voltage, frequency range	100-120V/200-240V, 50-60Hz	100-240 VAC full range, 50-60 Hz		
Optional DC power supply	No	Yes		
Power supply	1200W	450W		
Typical, max power consumption	670W, 809W	154W, 187W		
Weight (lb)	48	25		
Height	2U	1U		
Width	EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets	EIA 310-D for 19-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-conden			
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	ory model 2U1P2A 1U1P1A			

¹ 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	2 GB	2-20	•	•			PCI passthrough
26 Gbps - 40 Gbps	2 GB	2-20	•	•	•		SRI-IOV
16 Gbps - 25 Gbps	2 GB	2-16	•	•	•		
11 Gbps - 15 Gbps	2 GB	2-12	•	•	•		VMXNET3 or SR-IOV4
9 Gbps - 10 Gbps	2 GB	2-10	•	•	•		
4 Gbps - 8 Gbps	2 GB	2-6	•	•	•		VMXNET3 or paravirtualization
10 Mbps - 3 Gbps	2 GB	2-4	•	•	•	•	

Performance ⁴	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

NetScaler for Public Cloud: AWS, Azure, and Google Cloud Platform

Note:

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

- 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: Intel VTx and AMD processors on ESXi from 13.1–4.x release.
- 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 container managers
CPX	1 GB	1-7	1-10 Gbps	 Docker version 1.12 and above Kubernetes Red Hat OpenShift Amazon Elastic Kubernetes Service (EKS) Azure Kubernetes Service (AKS) Google Kubernetes Engine (GKE) Rancher Pivotal Container Service (PKS)

	1 Core	1 Core (Sidecar CPX)	3 Cores	7 Cores
System resources				
Maximum vCPUs 1137	1	1	3	7
Maximum memory	2	1	6	14
Performance ¹				
HTTP throughput (Gbps) ²	4.6	4.6	6.5	11.3
SSL 2k throughput (Gbps)	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
SSL transactions/sec (ECDHE- RSA[2k])	1,004	1,020	1,962	3,987

More info: NetScaler CPX production documentation

Note

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

^{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 Linux distribution	
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	

More info: NetScaler BLX production documentation

Note: All BLX vCPUs are allocated as PEs.

NetScaler models	MPX 9120 Premium edition	MPX 9110 Advanced edition	MPX 9105 Premium edition		
Attributes					
Memory	64 GB	64 GB	64 GB		
Ethernet ports ¹	8 x 25GbE SFP28				
Transceivers support	SFP28: 25/10GbE SFP28 SR, DAC 10/1GbE SFP+ SR, LR 10GbE DAC 1GBase				
RAID support	No	No	No		
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		
Mechanical, environmental, and regulatory					
Power supplies		2			
Input voltage, frequency range	100–240 VAC full range, 50–60 Hz				
Optional DC power supply	No				
Power supply	450W				
Typical, max power consumption	250W, 282W				
Weight (lb)		37			
Height		1U			
Width		EIA 310-D for 19-inch racks			
Depth	61 cm; 24 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				
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	1U2P2A				

¹ 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 9100 series have 80 plus platinum rating for power supply.

NetScaler models	SDX 16060 Premium edition	SDX 16030 Premium edition			
Attributes					
Memory	256 GB	256 GB			
Ethernet ports ¹	4 x 100G QSFP28 8 x 25GbE SFP28				
Transceivers support	50/100GbE QSFP28 40GbE QSFP+ SR4, 25/10GbE SFP28 S	FP28: 3 SR4, LR4, AoC, DAC , LR4, BiDi, AoC, DAC R (Adapter required) .R (Adapter required)			
	SFP28: 25/10GbE SFP28 SR, DAC 10/1GbE SFP+ SR, LR 10GbE DAC 1GBase-T				
RAID support	Yes	Yes			
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			
Mechanical, environmental, and regulatory					
Power supplies	:	2			
Input voltage, frequency range	100–240 VAC full ran	ge 50-60 Hz 7.0-2.6A			
Optional DC power supply	Y	es es			
Power supply	85	50W			
Typical, max power consumption	465 W	, 584 W			
Weight (lb)	5	56			
Height	2	20			
Width	EIA 310-D for	19-inch racks			
Depth	71.1 cm	n (28 in)			
Operating temperature	0-45°C (32-113°F)				
Allowed relative humidity	5%–95%, Non-condensing				
Safety certifications	IEC/EN/UL/CSA/AS/NZ	S 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	202	2P3A			

Notes: * It is not possible to convert a MPX 16000 to SDX 16000 once deployed.

 $^{1\,}Published\ ethernet\ interfaces\ compliant\ per\ IEEE802.3-2002/2005/2008/2012.$

 $^{2\,}Performance\,varies\,depending\,on\,ciphers\,deployed.\,Contact\,your\,NetScaler\,sales\,representative\,for\,details.$

³ All 16000 series have 80 plus platinum rating for power supply.

Attributes Attribu	m edition				
Ethernet ports¹ 4 x 10GE SFP+; 6x 8 x 25GbE SFP2 Transceivers support 10GE SFP+; SR, LR SFP28: 25/10GbE SFP28 SF 10/1GbE SFP28 SF 10/1GbE SFP+ SR 110/1GbE SFP+ SR 110/1					
Transceivers support 10GE SFP+: SR, LR SFP28: 25/10GbE SFP28 SF 10/1GbE SFP28 SF 10/1GbE SFP28 SF 10/1GbE SFP+ SR 10GbE DAC 1GBase RAID support No No Performance System throughput 10 30 L7 HTTP request/second 1,400,000 1,800,000 SSL transactions/second (2k key certificates)² 13,000 35,000 EDCHE transactions/second 6,000 15,000 SSL throughput (Gbps) 10 30 Compression throughput (Gbps) 3.5 7 ICA Proxy concurrent users 10,000 17,000 Included instances (on SDX models) N/A N/A					
Explose SFP28 SI 10/1GbE SFP28 SI 10/1GbE SFP4 SR 10/1GbE SFP4 SR 10GbE DAC 1GBase RAID support No No Performance System throughput 10 30 L7 HTTP request/second 1,400,000 1,800,000 SSL transactions/second (2k key certificates)² 13,000 35,000 EDCHE transactions/second 6,000 15,000 SSL throughput (Gbps) 10 30 Compression throughput (Gbps) 3.5 7 ICA Proxy concurrent users 10,000 17,000 Included instances (on SDX models) N/A N/A	28				
Performance System throughput 10 30 L7 HTTP request/second 1,400,000 1,800,000 SSL transactions/second (2k key certificates)² 13,000 35,000 EDCHE transactions/second 6,000 15,000 SSL throughput (Gbps) 10 30 Compression throughput (Gbps) 3.5 7 ICA Proxy concurrent users 10,000 17,000 Included instances (on SDX models) N/A N/A	,				
System throughput 10 30 L7 HTTP request/second 1,400,000 1,800,000 SSL transactions/second (2k key certificates)² 13,000 35,000 EDCHE transactions/second 6,000 15,000 SSL throughput (Gbps) 10 30 Compression throughput (Gbps) 3.5 7 ICA Proxy concurrent users 10,000 17,000 Included instances (on SDX models) N/A N/A					
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Compression throughput (Gbps) 3.5 7 ICA Proxy concurrent users 10,000 17,000 Included instances (on SDX models) N/A N/A					
ICA Proxy concurrent users 10,000 17,000 Included instances (on SDX models) N/A N/A					
Included instances (on SDX models) N/A N/A					
Mechanical, environmental, and regulatory					
Power supplies 1 (2nd optional) 2					
Input voltage, frequency range 100–127/200–240 V 50–60 Hz 100–240 VAC full range,	50-60 Hz				
Optional DC power supply Yes No					
Power supply 450W 450W					
Typical, max power consumption 225W, 275W 250W, 282W					
Weight (lb) 25 37					
Height 1U					
Width EIA 310-D for 19 inch racks					
Depth 61 cm (24 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	IEC/EN/UL/CSA/AS/NZS 62368-1 and 60950-1				
susceptibility standard (RCM), Japan (VCCI), Korea (KCC), Taiwan (BSMI), China (CCC), India (BIS), EAE	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 1U1P1A 1U2P2A	T (NTIVA)				

Notes

¹ Published ethernet interfaces compliant per IEEE802.3-2002/2005/2008/2012.

 $^{2\,}Performance\,varies\,depending\,on\,ciphers\,deployed.\,Contact\,your\,NetScaler\,sales\,representative\,for\,details.$

 $^{3\,\}text{All}\,8900$ and $9100\,\text{series}$ have 80plus platinum rating for power supply.

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



Enterprise Sales

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