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NetScaler Data Sheet

Enabling high-performance
multi-cloud application delivery

NetScaler

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 of 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 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 and FIPS 140-3 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

Zero-capacity hardware

NetScaler models	MPX/SDX 9200Z	MPX/SDX 17000Z
Attributes		
Memory	128 GB	256 GB
Ethernet ports[1]	8 x 50GbE SFP56	8 x 50GbE SFP56 4 x 200GbE QSFP56
Transceivers support	50GbE SFP56 SR, AOC, DAC 25GbE SFP28 SR & LR, AOC, DAC 10GbE SFP+ SR & LR, AOC, DAC	200/100 GbE QSFP56 SR & LR, AOC, DAC 50GbE SFP56 SR, AOC, DAC 40GbE QSFP+ SR, LR & BiDi, AOC, DAC 25GbE SFP28 SR & LR, AOC, DAC 10GbE SFP+ SR & LR, AOC, DAC
Performance		
System throughput (Gbps) [L4/L7 throughput]	10–95	30–350
L4/L7 HTTP request/second	Up to 6,800,000	6,920,000
SSL transactions/second (2k key certificates)[2]	Up to 112,000	219,000
EDCHE transactions/second	Up to 96,000	187,000
SSL throughput (Gbps)	Up to 64	Up to 190
Compression throughput (Gbps)	Up to 28	Up to 49
ICA Proxy concurrent users	Up to 17,000	Up to 30,000
Concurrent TCP sessions	Up to 59M	Up to 117M
SDX instances	1–7	1–55
Mechanical, environmental, and regulatory		
Power supplies	2	2
Input voltage, frequency range	100–127/200-240 VAC, 50–60 Hz	100–127/200-240 VAC, 50–60 Hz
Optional DC power supply	No	No
Power supply	800W	1600W
Typical, max power consumption	300W, 406W	465W, 806W
Weight (lb)	25.2 lbs.	35 lbs (MPX 17000, 2x NVMe) / 38 lbs (SDX 17000, 6x NVMe)
Height	1U	2U
Width	EIA 310-D for 19-inch racks	EIA 310-D for 19-inch rack
Depth	21.7 in (55 cm)	21.7 in (55 cm)
Operating temperature	0–45°C (32-113°F)	0–45°C (32-113°F)
Allowed relative humidity	10%–90%, Non-condensing	10%–90%, 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
Typical, max airflow, front to back	81CFM, 104CFM	127 CFM, 215 CFM
Electromagnetic emissions certification & 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), India (BIS), Saudi Arabia (CITC), Brazil (Anatel), South Africa (ICASA), Mexico (NOM), Egypt (NTRA)	
Regulatory compliance	RoHS, WEEE, REACH	
NetScaler compliance regulatory model	1U3P3A	2U3P3A

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. All 9200 series and 17000 series have 80plus platimum 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	•	•	•		SR-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 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	Recommended network driver
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	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. This is network I/O bound performance. You may achieve higher performance based on packet processing size.

NetScaler BLX for bare metal

BLX model	Minimum memory	vCPUs	Throughput	Recommended network driver
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.

Fixed Capacity section

NetScaler models	MPX 9230 Premium edition	MPX 9210 Premium edition
Attributes		
Memory	128 GB	
Ethernet ports[1]	8 x 50GbE SFP56	
Transceivers support	50GbE SFP56 SR, AOC, DAC 25GbE SFP28 SR & LR, AOC, DAC 10GbE SFP+ SR & LR, AOC, DAC	
Performance		
System throughput (Gbps) [L4/L7 throughput]	30	10
L4/L7 HTTP request/second	3,731,000	2,915,000
SSL transactions/second (2k key certificates)[2]	62,000	45,000
EDCHE transactions/second	50,000	36,000
SSL throughput (Gbps)	30	10
Compression throughput (Gbps)	14	9
ICA Proxy concurrent users	Up to 14,000	Up to 12,000
Concurrent TCP sessions	Up to 55.5M	Up to 55M
Mechanical, environmental, and regulatory		
Power supplies	2	
Input voltage, frequency range	100–127/200-240 VAC, 50–60 Hz	
Optional DC power supply	No	
Power supply	800W	
Typical, max power consumption	300W, 406W	
Weight (lb)	25.2 lbs.	
Height	1U	
Width	EIA 310-D for 19-inch racks	
Depth	21.7 in (55 cm)	
Operating temperature	0–45°C (32-113°F)	
Allowed relative humidity	10%–90%, Non-condensing	
Safety certifications	IEC/EN/UL/CSA/AS/NZS 62368-1 and 60950-1	
Electromagnetic emissions certification & 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)), India (BIS), Saudi Arabia (CITC), Brazil (Anatel), South Africa (ICASA), Mexico (NOM), Egypt (NTRA)	
Regulatory compliance	RoHS, WEEE, REACH	
NetScaler compliance regulatory model	1U3P3A	

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. All 9200 series have 80plus platimum power supply

Fixed Capacity section

NetScaler models	SDX 17030 Premium edition	SDX 17060 Premium edition
Attributes		
Memory	256 GB	
Ethernet ports[1]	8 x 50GbE SFP56 4 x 200GbE QSFP56	
Transceivers support	200/100 GbE QSFP56 SR & LR, AOC, DAC 50GbE SFP56 SR, AOC, DAC 40GbE QSFP+ SR, LR & BiDi, AOC, DAC 25GbE SFP28 SR & LR, AOC, DAC 10GbE SFP+ SR & LR, AOC, DAC	
RAID support	Yes	
Performance		
System throughput (Gbps) [L4/L7 throughput]	30	60
L4/L7 HTTP request/second	8,000,000	8,600,000
SSL transactions/second (2k key certificates)[2]	62,000	125,000
EDCHE transactions/second	50,000	56,000
SSL throughput (Gbps)	30	60
Compression throughput (Gbps)	29	31
ICA Proxy concurrent users	15,000	20,000
Concurrent TCP sessions	110M	110M
Concurrent TCP sessions	20	40
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	1600W	
Typical, max power consumption	465W, 806W	
Weight (lb)	35 lbs (MPX 17000, 2x NVMe) / 38 lbs (SDX 17000, 6x NVMe)	
Height	2U	
Width	EIA 310-D for 19-inch racks	
Depth	21.7 in (55 cm)	
Operating temperature	0–45°C (32–113°F)	
Allowed relative humidity	10%–90%, Non-condensing	
Safety certifications	IEC/EN/UL/CSA/AS/NZS 62368-1 and 60950-1	
Typical, max airflow, front to back	127 CFM, 215 CFM	
Electromagnetic emissions certification & 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), India (BIS), Saudi Arabia (CITC), Brazil (Anatel), South Africa (ICASA), Mexico (NOM), Egypt (NTRA)	
Regulatory compliance	RoHS, WEEE, REACH	
NetScaler compliance regulatory model	2U3P3A	

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. All 17000 series have 80plus platinum rating for power supply.

Fixed Capacity section

NetScaler models	MPX 9230 FIPS
Attributes	
FIPS Standard	140-3 Level 2 Certified (#5342)
Memory	128 GB
Ethernet ports[1]	8 x 50GbE SFP56
Transceivers support	SFP28: 50GbE SFP56 SR, AOC, DAC 25GbE SFP28 SR & LR, AOC, DAC 10GbE SFP+ SR & LR, AOC, DAC
RAID support	No
Performance	
System throughput (Gbps) [L4/L7 throughput]	30
L4/L7 HTTP request/second	6,800,000
SSL transactions/second (2k key certificates)[2]	112,000
EDCHE transactions/second	96,000
SSL throughput (Gbps)	64
Compression throughput (Gbps)	28
ICA Proxy concurrent users	17,000
Mechanical, environmental, and regulatory	
Power supplies	2
Input voltage, frequency range	100–127/200-240 VAC 50–60 Hz
Optional DC power supply	No
Power supply	800W
Typical, max power consumption	300W, 406W
Weight (lb)	25.6
Height	1U
Width	EIA 310-D for 19 inch racks
Depth	21.7 cm (55 in)
Operating temperature	0–45°C (32-113°F)
Allowed relative humidity	5%–95%, Non-condensing
Safety certifications	IEC/EN/CSA/AS/NZS 62368-1 and 60950-1
Electromagnetic emissions certification & 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), India (BIS), Saudi Arabia (CITC), Brazil (Anatel), South Africa (ICASA), Mexico (NOM), Egypt (NTRA)
Regulatory compliance	RoHS, WEEE, REACH
NetScaler compliance regulatory model	1U3P3A

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. All 9200 series have 80plus platinum rating for power supply.

Fixed Capacity section

NetScaler models	VPX 1G Advanced	VPX 5G Premium	VPX 5G FIPS Premium	VPX 10G Premium
Attributes				
vCPU	4	6	6	9
Memory	12 GB	12 GB	12 GB	20 GB
NICs	2-4 NICs	2-4 NICs	2-4 NICs	2-4 NICs
Performance				
System throughput (Gbps) [L4/L7 throughput]	1,000	5,000	5,000	10,000
L4/L7 HTTP request/second	195,000	234,000	234,000	363,000
SSL transactions/second (2K Key certificates)[1]	4,000	6,000	6,000	11,000
EDCHE transactions/second	3,000	5,000	5,000	9,000
SSL throughput (Gbps)	1,000	5,000	5,000	10,000
Compression throughput (Gbps)	1,000	5000	5,000	10,000
Concurrent TCP sessions	1,750,000	2,800,000	2,800,000	5,500,000

Notes:

1. Performance varies depending on ciphers deployed. Contact your NetScaler sales representative for details.

Fixed Capacity section

NetScaler models	BLX 1G Premium	BLX 5G Premium	BLX 10G Premium
Attributes			
vCPU	4	6	9
NICs	2-4 NICs	2-4 NICs	2-4 NICs
Performance			
System throughput (Gbps) [L4/L7 throughput]	1,000	5,000	10,000
L4/L7 HTTP request/second	193,000	234,000	364,000
SSL transactions/second (2K Key certificates)[1]	4,000	7,000	11,000
EDCHE transactions/second	3,000	6,000	10,000
SSL throughput (Gbps)	1,000	5,000	10,000
Compression throughput (Gbps)	1,000	5000	10,000
Concurrent TCP sessions	4,000,000	7,000,000	12,000,000

Notes:

1. Performance varies depending on ciphers deployed. Contact your NetScaler sales representative for details.

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