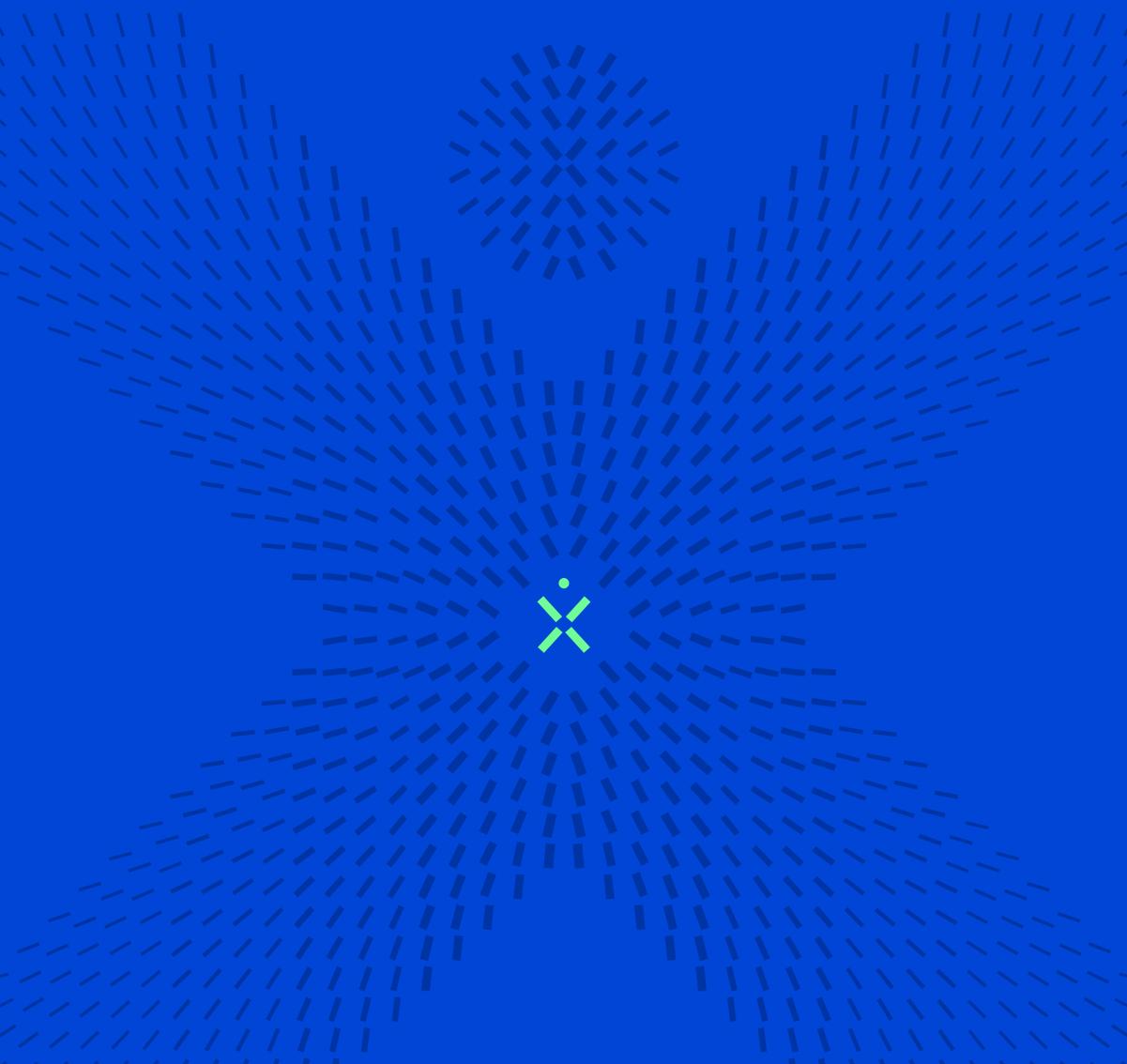


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# NetScaler **Data Sheet**

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

#### Attributes

Memory	128 GB
Ethernet ports <sup>1</sup>	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]	10–95
L4/L7 HTTP request/second	Up to 6,800,000
SSL transactions/second (2k key certificates) <sup>2</sup>	Up to 112,000
EDCHE transactions/second	Up to 96,000
SSL throughput (Gbps)	Up to 64
Compression throughput (Gbps)	Up to 28
ICA Proxy concurrent users	Up to 17,000
Concurrent TCP sessions	Up to 59M
SDX instances	1–7

#### 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 platinum power supply

## Zero-capacity hardware

NetScaler models	MPX/SDX 16000Z	MPX/SDX 9100Z
<b>Attributes</b>		
Memory	128 GB, 256 GB	64 GB
Ethernet ports <sup>1</sup>	4 x 100G QSFP28 8 x 25GbE SFP28	8 x 25GbE SFP28
Transceivers support	QSFP28: 50/100GbE QSFP28 SR4, 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
<b>Performance</b>		
System throughput (Gbps) [L4/L7 throughput]	30-250	10-95
L4/L7 HTTP request/second	Up to 7,500,000	Up to 3,000,000
SSL transactions/second (2k key certificates) <sup>2</sup>	Up to 280,000	Up to 90,000
EDCHE transactions/second	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 concurrent users	Up to 30,000	Up to 17,000
Concurrent TCP sessions	Up to 53M / 104M	Up to 30M
SDX instances	1-55	1-7
<b>Mechanical, environmental, and regulatory</b>		
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-inch racks	
Depth	71.1 cm (28 in)	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 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), 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. 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.

## NetScaler software

### NetScaler VPX for on-premises

Performance range	Minimum memory <sup>1</sup>	vCPUs <sup>2</sup>	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	•	•	•		
10 Mbps - 3 Gbps	2 GB	2-4	•	•	•	•	VMXNET3 or paravirtualization
Performance <sup>4</sup>			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	<ul style="list-style-type: none"> <li>• Docker version 1.12 and above</li> <li>• Kubernetes</li> <li>• Red Hat OpenShift</li> <li>• Amazon Elastic Kubernetes Service (EKS)</li> <li>• Azure Kubernetes Service (AKS)</li> <li>• Google Kubernetes Engine (GKE)</li> <li>• Rancher</li> <li>• Pivotal Container Service (PKS)</li> </ul>

	1 Core	1 Core (Sidecar CPX)	3 Cores	7 Cores
<b>System resources</b>				
Maximum vCPUs	1	1	3	7
Maximum memory	2	1	6	14
<b>Performance<sup>1</sup></b>				
HTTP throughput (Gbps) <sup>2</sup>	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
<b>Attributes</b>		
Memory		128 GB
Ethernet ports <sup>1</sup>		8 x 50GbE SFP56
Transceivers support		50GbE SFP56 SR, AOC, DAC 25GbE SFP28 SR & LR, AOC, DAC 10GbE SFP+ SR & LR, AOC, DAC
<b>Performance</b>		
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) <sup>2</sup>	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
<b>Mechanical, environmental, and regulatory</b>		
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 platinum power supply

## Fixed Capacity section

NetScaler models	MPX 9120 Premium edition	MPX 9110 Advanced edition	MPX 9105 Premium edition
<b>Attributes</b>			
Memory	64 GB	64 GB	64 GB
Ethernet ports <sup>1</sup>	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
<b>Performance</b>			
System throughput (Gbps) [L4/L7 throughput]	20	10	5
L4/L7 HTTP request/second	1,600,000	1,400,000	1,200,000
SSL transactions/second (2k key certificates) <sup>2</sup>	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	Up to 14,000	Up to 12,000	Up to 10,000
Concurrent TCP sessions	Up to 27.5M	Up to 27M	Up to 26.5M
<b>Mechanical, environmental, and regulatory</b>			
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 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), 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		

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

## Fixed Capacity section

NetScaler models	SDX 16060 Premium edition	SDX 16030 Premium edition
<b>Attributes</b>		
Memory	256 GB	256 GB
Ethernet ports <sup>1</sup>	4 x 100G QSFP28 8 x 25GbE SFP28	
Transceivers support	QSFP28: 50/100GbE QSFP28 SR4, 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	
RAID support	Yes	Yes
<b>Performance</b>		
System throughput (Gbps) [L4/L7 throughput]	60	30
L4/L7 HTTP request/second	5,000,000	4,600,000
SSL transactions/second (2k key certificates) <sup>2</sup>	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	20,000	15,000
Concurrent TCP sessions	Up to 51M / 101M	Up to 50M / 100M
Included instances (on SDX models)	40	20
<b>Mechanical, environmental, and regulatory</b>		
Power supplies	2	
Input voltage, frequency range	100–240 VAC full range 50–60 Hz 7.0–2.6A	
Optional DC power supply	Yes	
Power supply	850W	
Typical, max power consumption	465 W, 584 W	
Weight (lb)	56	
Height	2U	
Width	EIA 310-D for 19-inch racks	
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	
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), 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	

**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 80plus platinum rating for power supply.

## Fixed Capacity section

NetScaler models	MPX 9130 FIPS Premium edition
<b>Attributes</b>	
Memory	64 GB
Ethernet ports <sup>1</sup>	8 x 25GbE SFP28
Transceivers support	SFP28: 25/10GbE SFP28 SR, DAC 10/1GbE SFP+ SR, LR 10GbE DAC 1GBase
RAID support	No
<b>Performance</b>	
System throughput (Gbps) [L4/L7 throughput]	30
L4/L7 HTTP request/second	1,800,000
SSL transactions/second (2k key certificates) <sup>2</sup>	35,000
EDCHE transactions/second	15,000
SSL throughput (Gbps)	30
Compression throughput (Gbps)	70
ICA Proxy concurrent users	Up to 15,000
Concurrent TCP sessions	Up to 28M
Included instances (on SDX models)	NA
<b>Mechanical, environmental, and regulatory</b>	
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 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), 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

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

## Fixed Capacity section

<b>NetScaler models</b>	VPX 1 Advanced	VPX 5 Premium	VPX 5 FIPS Premium
Attributes		See page 5	

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