

NetScaler hardware models

Enabling high performance application delivery with hardware appliances and multi-tenant support

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 factor 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.

NetScaler offers pooled-capacity licensing, which allows you to 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 hardware 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 FIPS models

NetScaler offers specific physical and virtual form factors with FIPS 140-2 certification and compliance to meet the strict compliance mandates of high security businesses and organizations.

Learn more about NetScaler FIPS models by visiting the [NetScaler Trust Center](#).

NetScaler models	MPX/SDX 26200-100G	MPX/SDX 26160-100G	MPX/SDX 26100-100G
Attributes			
Memory	256 GB	256 GB	256 GB
Ethernet ports ¹	8x 100GE QSFP28	8x 100GE QSFP28	8x 100GE QSFP28
Transceivers support	50GE/100GE QSFP28: SR4; 40GE QSFP+: SR4; 25GE SFP28: SR (Adapter required); 10GE SFP+: SR, LR (Adapter required)		
RAID support	Yes	Yes	Yes
Performance			
System throughput (Gbps) [L4/L7 throughput]	200	160	100
L4/L7 HTTP requests/sec	5,500,000	4,200,000	3,200,000
SSL transactions/sec (2k key certificates) ²	125,000	110,000	66,000
ECDHE transactions/sec	58,000	50,000	30,000
SSL throughput (Gbps)	60	48	36
Compression throughput (Gbps)	18	15	12
ICA Proxy/SSL VPN concurrent users	20,000	20,000	20,000
Included instances, maximum instances (on SDX models)	115, 115	70, 115	20, 115
Mechanical, environmental, and regulatory			
Power supplies	2	2	2
Input voltage, frequency range	100-240 VAC full range, 50-60 Hz	100-240 VAC full range, 50-60 Hz	100-240 VAC full range, 50-60 Hz
Optional DC power supply	Yes	Yes	Yes
Power supply	1000W	1000W	1000W
Typical, max power consumption	429W, 556W	429W, 556W	429W, 556W
Weight (lbs)	48	48	48
Height	2U	2U	2U
Width	EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets		
Depth	71.1 cm (28 in)	71.1 cm (28 in)	71.1 cm (28 in)
Operating temperature	0-45°C (32-113°F)	0-45°C (32-113°F)	0-45°C (32-113°F)
Allowed relative humidity	5%-95%, Non-condensing	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 (RCM), Japan (VCCI), Korea (KCC), Taiwan (BSMI), China (CCC), India (BIS), Russia (EAC), Saudi Arabia (CITC), Brazil (Anatel), South Africa (ICASA), Mexico (NOM), Egypt (NTRA), Israel (MoC)		
Regulatory compliance	RoHS, WEEE, REACH		
NetScaler compliance regulatory model	2U1P1D	2U1P1D	2U1P1D

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

NetScaler models	MPX/SDX 26200-50S	MPX/SDX 26160-50S	MPX/SDX 26100-50S
Attributes			
Memory	256 GB	256 GB	256 GB
Ethernet ports ¹	4x 50GE QSFP28; 16x 25GE SFP28		
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		
RAID support	Yes	Yes	Yes
Performance			
System throughput (Gbps) [L4/L7 throughput]	200	160	100
L4/L7 HTTP requests/sec	5,700,000	5,000,000	4,500,000
SSL transactions/sec (2k key certificates) ²	522,000	358,000	283,000
ECDHE transactions/sec	230,000	165,000	120,000
SSL throughput (Gbps)	120	100	80
Compression throughput (Gbps)	22	16	13
ICA Proxy/SSL VPN concurrent users	20,000	20,000	20,000
Included instances, maximum instances (on SDX models)	115, 115	70, 115	20, 115
Mechanical, environmental, and regulatory			
Power supplies	2	2	2
Input voltage, frequency range	100-240 VAC full range, 50-60 Hz	100-240 VAC full range, 50-60 Hz	100-240 VAC full range, 50-60 Hz
Optional DC power supply	No	No	No
Power supply	1200W	1200W	1200W
Typical, max power consumption	670W, 809W	670W, 809W	670W, 809W
Weight (lbs)	48	48	48
Height	2U	2U	2U
Width	EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets		
Depth	71.1 cm (28 in)	71.1 cm (28 in)	71.1 cm (28 in)
Operating temperature	0-45°C (32-113°F)	0-45°C (32-113°F)	0-45°C (32-113°F)
Allowed relative humidity	5%-95%, Non-condensing	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 (RCM), Japan (VCCI), Korea (KCC), Taiwan (BSMI), China (CCC), India (BIS), Russia (EAC), Saudi Arabia (CITC), Brazil (Anatel), South Africa (ICASA), Mexico (NOM), Egypt (NTRA), Israel (MoC)		
Regulatory compliance	RoHS, WEEE, REACH		
NetScaler compliance regulatory model	2U1P2A	2U1P2A	2U1P2A

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

²Performance varies depending on ciphers deployed. Contact your NetScaler sales representative for details.

NetScaler models	MPX/SDX 26200	MPX/SDX 26160	MPX/SDX 26100
Attributes			
Memory	256 GB	256 GB	256 GB
Ethernet ports ¹	8x 50GE QSFP28; 16x 25G SFP28		
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		
RAID support	Yes	Yes	Yes
Performance			
System throughput (Gbps) [L4/L7 throughput]	200	160	100
L4/L7 HTTP requests/sec	5,400,000	4,300,000	3,800,000
SSL transactions/sec (2k key certificates) ²	310,000	220,000	140,000
ECDHE transactions/sec	135,000	120,000	100,000
SSL throughput (Gbps)	80	64	51
Compression throughput (Gbps)	22	17	13
ICA Proxy/SSL VPN concurrent users	20,000	20,000	20,000
Included instances, maximum instances (on SDX models)	115, 115	70, 115	20, 115
Mechanical, environmental, and regulatory			
Power supplies	2	2	2
Input voltage, frequency range	100-240 VAC full range, 50-60 Hz	100-240 VAC full range, 50-60 Hz	100-240 VAC full range, 50-60 Hz
Optional DC power supply	Yes	Yes	Yes
Power supply	1000W	1000W	1000W
Typical, max power consumption	583W, 718W	583W, 718W	583W, 718W
Weight (lbs)	48	48	48
Height	2U	2U	2U
Width	EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets		
Depth	71.1 cm (28 in)	71.1 cm (28 in)	71.1 cm (28 in)
Operating temperature	0-45°C (32-113°F)	0-45°C (32-113°F)	0-45°C (32-113°F)
Allowed relative humidity	5%-95%, Non-condensing	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 (RCM), Japan (VCCI), Korea (KCC), Taiwan (BSMI), China (CCC), India (BIS), Russia (EAC), Saudi Arabia (CITC), Brazil (Anatel), South Africa (ICASA), Mexico (NOM), Egypt (NTRA), Israel (MoC)		
Regulatory compliance	RoHS, WEEE, REACH		
NetScaler compliance regulatory model	2U1P1D	2U1P1D	2U1P1D

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.

NetScaler models	MPX/SDX 16200	MPX/SDX 16160	MPX/SDX 16120
Attributes*			
Memory	128 GB, 256 GB	128 GB, 256 GB	128 GB, 256 GB
Ethernet ports ₁	4 x 100G QSFP28 + 8 x 25GE SFP.FP 28		
Transceivers support	25G SFP28; 10G SFP+: SR, LR, DAC; 1G SFP: Base-T; 50G/100G QSFP28: 40G QSFP+: 25G/10G SFP28 SR LC (adaptor required); 10G/1G SFP+: SR LR , 10G DAC/AOC (adaptor required)		
RAID support	Yes	Yes	Yes
Performance			
System throughput (Gbps) [L4/L7 throughput]	200	160	120
L4/L7 HTTP requests/sec	5,800,000	5,500,000	5,400,000
SSL transactions/sec (2k key certificates) ₂	265,000	230,000	200,000
ECDHE transactions/sec	130,000	116,000	100,000
SSL throughput (Gbps)	115	110	105
Compression throughput (Gbps)	36	34	32
ICA Proxy/SSL VPN concurrent users	125,400	122,800	105,500
Included instances, maximum instances (on SDX models)	55, 55	55, 55	55, 55
Mechanical, environmental, and regulatory			
Power supplies	2	2	2
Input voltage, frequency range	100 - 240 VAC full range 50 - 60 Hz 7.0 - 2.6A	100 - 240 VAC full range 50 - 60 Hz 7.0 - 2.6A	100 - 240 VAC full range 50 - 60 Hz 7.0 - 2.6A
Optional DC power supply	No	No	No
Power supply	850 W	850 W	850 W
Typical, max power consumption	465 W, 584 W	465 W, 584 W	465 W, 584 W
Weight (lbs)	56	56	56
Height	2U	2U	2U
Width	EIA 310-D for 19-inch racks		
Depth	71.1 cm (28 in)	71.1 cm (28 in)	71.1 cm (28 in)
Operating temperature	0 - 45°C (32 - 113°F)	0 - 45°C (32 - 113°F)	0 - 45°C (32 - 113°F)
Allowed relative humidity	5%-95%, Non-condensing	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 (EN55032/55035)), Australia (RCM), Japan (VCCI), Korea (KCC), Taiwan (BSMI), China (CCC), India (BIS), Russia (EAC), Saudi Arabia (CITC), Brazil (Anatel), South Africa (ICASA), Mexico (NOM), Egypt (NTRA), Israel (MoC)		
Regulatory compliance	RoHS, WEEE, REACH		
NetScaler compliance regulatory model	2U2P3A	2U2P3A	2U2P3A

* It is not possible to convert a MPX 16000 to SDX 16 000 in the field

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.

NetScaler models	MPX/SDX 16100	MPX/SDX 16080	MPX/SDX 16060
Attributes*			
Memory	128 GB, 256 GB	128 GB, 256 GB	128 GB, 256 GB
Ethernet ports ₁	4 x 100G QSFP28 + 8 x 25GE SFP 28		
Transceivers support	25G SFP28; 10G SFP+: SR, LR, DAC; 1G SFP: Base-T; 50G/100G QSFP28: 40G QSFP+: 25G/10G SFP28 SR LC (adaptor required); 10G/1G SFP+: SR LR , 10G DAC/AOC (adaptor required)		
RAID support	Yes	Yes	Yes
Performance			
System throughput (Gbps) [L4/L7 throughput]	100	80	60
L4/L7 HTTP requests/sec	5,200,000	5,000,000	4,500,000
SSL transactions/sec (2k key certificates) ₂	160,000	110,000	80,000
ECDHE transactions/sec	85,000	70,000	58,000
SSL throughput (Gbps)	100	80	60
Compression throughput (Gbps)	30	28	26
ICA Proxy/SSL VPN concurrent users	105,500	82,000	57,100
Included instances, maximum instances (on SDX models)	50, 55	45, 55	40, 55
Mechanical, environmental, and regulatory			
Power supplies	2	2	2
Input voltage, frequency range	100 - 240 VAC full range 50 - 60 Hz 7.0 - 2.6A	100 - 240 VAC full range 50 - 60 Hz 7.0 - 2.6A	100 - 240 VAC full range 50 - 60 Hz 7.0 - 2.6A
Optional DC power supply	No	No	No
Power supply	850 W	850 W	850 W
Typical, max power consumption	465 W, 584 W	465 W, 584 W	465 W, 584 W
Weight (lbs)	56	56	56
Height	2U	2U	2U
Width	EIA 310-D for 19-inch racks		
Depth	71.1 cm (28 in)	71.1 cm (28 in)	71.1 cm (28 in)
Operating temperature	0-45°C (32-113°F)	0-45°C (32-113°F)	0-45°C (32-113°F)
Allowed relative humidity	5%-95%, Non-condensing	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 (EN55032/55035)), Australia (RCM), Japan (VCCI), Korea (KCC), Taiwan (BSMI), China (CCC), India (BIS), Russia (EAC), Saudi Arabia (CITC), Brazil (Anatel), South Africa (ICASA), Mexico (NOM), Egypt (NTRA), Israel (MoC)		
Regulatory compliance	RoHS, WEEE, REACH		
NetScaler compliance regulatory model	2U2P3A	2U2P3A	2U2P3A

* It is not possible to convert a MPX 16000 to SDX 16 000 in the field

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.

NetScaler models	MPX/SDX 16040	MPX/SDX 16030
Attributes*		
Memory	128 GB, 256 GB	128 GB, 256 GB
Ethernet ports ¹	4 x 100G QSFP28 + 8 x 25GE SFP 28	
Transceivers support	25G SFP28; 10G SFP+: SR, LR, DAC; 1G SFP: Base-T; 50G/100G QSFP28: 40G QSFP+: 25G/10G SFP28 SR LC (adaptor required); 10G/1G SFP+: SR LR , 10G DAC/AOC (adaptor required)	
RAID support	Yes	Yes
Performance		
System throughput (Gbps) [L4/L7 throughput]	40	30
L4/L7 HTTP requests/sec	4,200,000	3,500,000
SSL transactions/sec (2k key certificates) ²	60,000	52,000
ECDHE transactions/sec	38,000	26,000
SSL throughput (Gbps)	40	30
Compression throughput (Gbps)	24	22
ICA Proxy/SSL VPN concurrent users	35,000	23,000
Included instances, maximum instances (on SDX models)	30, 55	20, 55
Mechanical, environmental, and regulatory		
Power supplies	2	2
Input voltage, frequency range	100 - 240 VAC full range 50 - 60 Hz 7.0 - 2.6A	100 - 240 VAC full range 50 - 60 Hz 7.0 - 2.6A
Optional DC power supply	No	No
Power supply	850 W	850 W
Typical, max power consumption	465 W, 584 W	465 W, 584 W
Weight (lbs)	56	56
Height	2U	2U
Width	EIA 310-D for 19-inch racks	
Depth	71.1 cm (28 in)	71.1 cm (28 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 (EN55032/55035)), Australia (RCM), Japan (VCCI), Korea (KCC), Taiwan (BSMI), China (CCC), India (BIS), Russia (EAC), Saudi Arabia (CITC), Brazil (Anatel), South Africa (ICASA), Mexico (NOM), Egypt (NTRA), Israel (MoC)	
Regulatory compliance	RoHS, WEEE, REACH	
NetScaler compliance regulatory model	2U2P3A	2U2P3A

* It is not possible to convert a MPX 16000 to SDX 16 000 in the field

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.

NetScaler models	MPX/SDX 15120	MPX/SDX 15100	MPX/SDX 15080
Attributes			
Memory	128 GB	128 GB	128 GB
Ethernet ports ¹	16x 25GE SFP28	16x 25GE SFP28	16x 25GE SFP28
Transceivers support	25GE SFP28: SR; 10GE SFP+: SR, LR		
RAID support	Yes	Yes	Yes
Performance			
System throughput (Gbps) [L4/L7 throughput]	120	100	80
L4/L7 HTTP requests/sec	3,900,000	3,600,000	3,500,000
L4 connections/sec	5,500,000	5,100,000	5,000,000
L4 concurrent sessions	65,000,000	65,000,000	60,000,000
SSL transactions/sec (2k key certificates) ²	160,000	140,000	127,000
ECDHE transactions/sec	65,000	58,000	53,000
SSL throughput (Gbps)	74	70	60
Compression throughput (Gbps)	10.8	10.5	9.3
ICA Proxy/SSL VPN concurrent users	20,000	20,000	20,000
Included instances, maximum instances (on SDX models)	55, 55	50, 55	45, 55
Mechanical, environmental, and regulatory			
Power supplies	2	2	2
Input voltage, frequency range	100-240 VAC full range, 50-60 Hz	100-240 VAC full range, 50-60 Hz	100-240 VAC full range, 50-60 Hz
Optional DC power supply	Yes	Yes	Yes
Power supply	1000W	1000W	1000W
Typical, max power consumption	395W, 520W	395W, 520W	395W, 520W
Weight (lbs)	60	60	60
Height	2U	2U	2U
Width	EIA 310-D for 19 inch racks		
Depth	71.1 cm (28 in)	71.1 cm (28 in)	71.1 cm (28 in)
Operating temperature	0-45°C (32-113°F)	0-45°C (32-113°F)	0-45°C (32-113°F)
Allowed relative humidity	5%-95%, Non-condensing	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 (RCM), Japan (VCCI), Korea (KCC), Taiwan (BSMI), China (CCC), India (BIS), Russia (EAC), Saudi Arabia (CITC), Brazil (Anatel), South Africa (ICASA), Mexico (NOM), Egypt (NTRA), Israel (MoC)		
Regulatory compliance	RoHS, WEEE, REACH		
NetScaler compliance regulatory model	2U1P1A	2U1P1A	2U1P1A

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

²Performance varies depending on ciphers deployed. Contact your NetScaler sales representative for details.

NetScaler models	MPX/SDX 15060	MPX/SDX 15040
Attributes		
Memory	128 GB	128 GB
Ethernet ports ¹	16x 25GE SFP28	16x 25GE SFP28
Transceivers support	25GE SFP28: SR; 10GE SFP+: SR, LR	
RAID support	Yes	Yes
Performance		
System throughput (Gbps) [L4/L7 throughput]	60	40
L4/L7 HTTP requests/sec	3,200,000	3,000,000
L4 connections/sec	4,600,000	4,400,000
L4 concurrent sessions	56,000,000	51,000,000
SSL transactions/sec (2k key certificates) ²	110,000	66,000
ECDHE transactions/sec	45,000	28,000
SSL throughput (Gbps)	50	40
Compression throughput (Gbps)	8.5	7.8
ICA Proxy/SSL VPN concurrent users	20,000	20,000
Included instances, maximum instances (on SDX models)	40, 55	30, 55
Mechanical, environmental, and regulatory		
Power supplies	2	2
Input voltage, frequency range	100-240 VAC full range, 50-60 Hz	100-240 VAC full range, 50-60 Hz
Optional DC power supply	Yes	Yes
Power supply	1000W	1000W
Typical, max power consumption	395W, 520W	395W, 520W
Weight (lbs)	60	60
Height	2U	2U
Width	EIA 310-D for 19 inch racks	
Depth	71.1 cm (28 in)	71.1 cm (28 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 (RCM), Japan (VCCI), Korea (KCC), Taiwan (BSMI), China (CCC), India (BIS), Russia (EAC), Saudi Arabia (CITC), Brazil (Anatel), South Africa (ICASA), Mexico (NOM), Egypt (NTRA), Israel (MoC)	
Regulatory compliance	RoHS, WEEE, REACH	
NetScaler compliance regulatory model	2U1P1A	2U1P1A

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

²Performance varies depending on ciphers deployed. Contact your NetScaler sales representative for details.

NetScaler models	MPX/SDX 15030	MPX/SDX 15020
Attributes		
Memory	128 GB	128 GB
Ethernet ports ¹	16x 25GE SFP28	16x 25GE SFP28
Transceivers support	25GE SFP28: SR; 10GE SFP+: SR, LR	
RAID support	Yes	Yes
Performance		
System throughput (Gbps) [L4/L7 throughput]	30	20
L4/L7 HTTP requests/sec	2,800,000	2,500,000
L4 connections/sec	4,200,000	3,300,000
L4 concurrent sessions	46,000,000	38,000,000
SSL transactions/sec (2k key certificates) ²	42,000	24,000
ECDHE transactions/sec	20,000	10,000
SSL throughput (Gbps)	30	20
Compression throughput (Gbps)	7.2	6.4
ICA Proxy/SSL VPN concurrent users	20,000	20,000
Included instances, maximum instances (on SDX models)	20, 55	5, 55
Mechanical, environmental, and regulatory		
Power supplies	2	2
Input voltage, frequency range	100-240 VAC full range, 50-60 Hz	100-240 VAC full range, 50-60 Hz
Optional DC power supply	Yes	Yes
Power supply	1000W	1000W
Typical, max power consumption	395W, 520W	395W, 520W
Weight (lbs)	60	60
Height	2U	2U
Width	EIA 310-D for 19 inch racks	
Depth	71.1 cm (28 in)	71.1 cm (28 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 (RCM), Japan (VCCI), Korea (KCC), Taiwan (BSMI), China (CCC), India (BIS), Russia (EAC), Saudi Arabia (CITC), Brazil (Anatel), South Africa (ICASA), Mexico (NOM), Egypt (NTRA), Israel (MoC)	
Regulatory compliance	RoHS, WEEE, REACH	
NetScaler compliance regulatory model	2U1P1A	2U1P1A

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.

NetScaler models	MPX/SDX 9130	MPX/SDX 9120	MPX 9110
Attributes*			
Memory	64 GB	64 GB	64 GB
Ethernet ports ¹	8 x 25GE SFP28	8 x 25GE SFP28	8 x 25GE SFP28
Transceivers support	25GE SFP28: SR; 10GE SFP+: SR, LR		
RAID support	No		
Performance			
System throughput (Gbps) [L4/L7 throughput]	30	20	10
L4/L7 HTTP requests/sec	2,100,000	1,790,000	1,480,000
SSL transactions/sec (2k key certificates) ²	41,000	23,000	15,500
ECDHE transactions/sec	19,000	10,000	7,200
SSL throughput (Gbps)	30	20	10
Compression throughput (Gbps)	6.1	5.8	4.2
ICA Proxy/SSL VPN concurrent users	17,000	14,000	12,000
Included instances, maximum instances (on SDX models)	7, 7	4, 7	N/A
Mechanical, environmental, and regulatory			
Power supplies	1 (2nd optional)		
Input voltage, frequency range	100-240 VAC full range, 50-60 Hz		
Optional DC power supply	No	No	No
Power supply	450W	450W	450W
Typical, max power consumption	250W, 282W	250W, 282W	250W, 282W
Weight (lbs)	37	37	37
Height	1U	1U	1U
Width	EIA 310-D for 19-inch racks		
Depth	61 cm; 24 in		
Operating temperature	0-45°C (32-113°F)	0-45°C (32-113°F)	0-45°C (32-113°F)
Allowed relative humidity	5%-95%, Non-condensing	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 (RCM), Japan (VCCI), Korea (KCC), Taiwan (BSMI), China (CCC), India (BIS), Russia (EAC), Saudi Arabia (CITC), Brazil (Anatel), South Africa (ICASA), Mexico (NOM), Egypt (NTRA), Israel (MoC)		
Regulatory compliance	RoHS, WEEE, REACH		
NetScaler compliance regulatory model	1U2P2A	1U2P2A	1U2P2A

*It is not possible to convert a MPX 9100 to SDX 9100 in the field

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.

NetScaler models	MPX 5910	MPX 5905	MPX 5901
Attributes			
Memory	16 GB	16 GB	16 GB
Ethernet ports:	2x 10GE SFP; 6x 10/100/1000 CU		
Transceivers support	10GE SFP+: SR, LR; 1GE SFP: CU		
RAID support	No	No	No
Performance			
System throughput (Gbps) [L4/L7 throughput]	10	5	1
L4/L7 HTTP requests/sec	350,000	250,000	150,000
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 models)	N/A	N/A	N/A
Mechanical, environmental, and regulatory			
Power supplies	1 (2nd optional)	1 (2nd optional)	1 (2nd optional)
Input voltage, frequency range	100-240 VAC full range	100-240 VAC full range	100-240 VAC full range
Optional DC power supply	Yes	Yes	Yes
Power supply	450W	450W	450W
Typical, max power consumption	154W, 187W	154W, 187W	154W, 187W
Weight (lbs)	25	25	25
Height	1U	1U	1U
Width	EIA 310-D for 19 inch racks		
Depth	61 cm (24 in)	61 cm (24 in)	61 cm (24 in)
Operating temperature	0-45°C (32-113°F)	0-45°C (32-113°F)	0-45°C (32-113°F)
Allowed relative humidity	5%-95%, Non-condensing	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 (RCM), Japan (VCCI), Korea (KCC), Taiwan (BSMI), China (CCC), India (BIS), Russia (EAC), Saudi Arabia (CITC), Brazil (Anatel), South Africa (ICASA), Mexico (NOM), Egypt (NTRA), Israel (MoC)		
Regulatory compliance	RoHS, WEEE, REACH		
NetScaler compliance regulatory model	1U1P1A	1U1P1A	1U1P1A

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

²Performance varies depending on ciphers deployed. Contact your NetScalerSales representative for details.

Technical aspects

NetScaler gateway

- Provides consolidation of secure remote access infrastructure with one URL
- Provides SAML 2.0 federated identity to provide single sign-on (SSO) across all applications, whether in a data center or in a cloud
- One URL to access any application
- AlwaysON allows auto-reconnect of SSL VPN session when users are moving between networks
- AlwaysON VPN allows to establish a VPN connection before Windows logon that help admin manage the laptop remotely
- Integration with StoreFront allows importing UI changes from StoreFront to Gateway portal and vice versa
- Gateway Insight for monitoring and troubleshooting all Gateway traffic for issues like authentication, EPA, single sign-on failures, etc.
- nFactor authentication for all applications
- Stateless RDP proxy
- Support for Linux (Ubuntu 18/020)
- Support for Mac (OS X 10.14 and above)
- Support for Windows 11, 10, 8.1, 8
- Support for iOS 12 or later. Compatible with iPhone, iPad, and iPod touch.
- Support for Android 7.0 and later

Secure access

- Citrix Virtual Apps and Desktops and Citrix Endpoint Management, formerly XenMobile, integration
- Device certificate scanning
- Single sign-on using NTLM/Kerberos/SAML, etc.
- SmartAccess: Adaptive application and action control enforced on Citrix Virtual Apps and Desktops servers
- SmartControl: Adaptive application and action control enforced on NetScaler gateway, thereby providing centralized policy management and security at the edge
- Integrated NetScaler gateway SSL VPN

- For ADC versions after 11.1, NetScaler Standard edition includes (500) Universal licenses, Enterprise or Advanced editions include (1000) Universal licenses, and there are no Universal license requirements with Platinum or Premium editions
- Endpoint analysis of user device
- SAML 2.0 and nFactor; passwords for single sign on to applications running behind NetScaler Gateway
- AAA traffic management
- SAML 2.0 and NTLMv1/2 support for configuring ADC with single sign-on (SSO)
- Support for Active Directory, LDAP, OCSP, etc.

L4-7 traffic management

Layer 4 load balancing (LB)

- Protocols supported: TCP, UDP, FTP, HTTP, HTTPS, DNS (TCP and UDP), SIP (over UDP), RTSP, SQL, RDP, IS-IS, SMPP
- Algorithms: Round Robin, Least Packets, Least Bandwidth, Least Connections, Response Time, Hashing (URL, Domain, Source IP, Destination IP, and CustomID), SNMP-provided metric, Server Application State Protocol (SASP)
- Session persistence: Source IP, cookie, server, group, SSL session, SIP CALLID, Token-based, SESSIONID
- Session protocols: TCP, UDP, SSL_TCP, Multi-path TCP, SPDY
- Server monitoring: Ping, TCP, URL, ECV, scriptable health checks, Dynamic Server Response Time
- Link load balancing

Layer 7 content switching

- Policies: URL, URL Query, URL Wildcard, Domain, Source/ Destination IP, HTTP Header, Custom, HTTP and TCP Payload Values, UDP
- Switch requests based on protocol of incoming packets

Database load balancing

- Support for Microsoft SQL Server and MySQL
- Switching algorithms include SQL query parameters such as user and database names and command parameters
- Token-based load balancing provides advanced configuration for persistence and fault-tolerant deployments

TriScale clustering²

- InScale-Outin with clustering up to 32 NetScaler appliances into single system image and up to 3 Tbps throughput
- Configuration Coordinator node for centralized management and synchronization
- Traffic distribution mechanisms include: Equal Cost Multiple Path (ECMP), Link- sets, and Cluster Link Aggregation Group (CLAG)
- Available on NetScaler MPX, SDX, and VPX
- Modules may be configured on all nodes in a cluster or using “spotted VIPS,” in which they are added only to a select subset of nodes

e-based policy enforcement

- Trigger ADC policies based upon connections per second, packets per second, or bandwidth used
- Source or destination-based upon header or payload information

Admin partitions

- Allows overlapping IP addresses
- Provides separate routing flows within a single appliance
- Enables basic multi-tenancy implementations
- Independent instances that share resources on the appliance
- Maximum number of 512 admin partitions per appliance

Global server load balancing (GSLB)

- Algorithms: site health, geographic proximity, network proximity, connections, bandwidth, AG-E SSL, VPN users
- Site health checking on status, connection load, packet rate, SNMP-provided metrics

Surge protection and priority queuing²

- Adaptive rate control for TCP connections and HTTP requests
- Prioritized transaction dispatch for critical application requests

Carrier-grade Network Address Translation²

- Support for: Full-cone NAT, Deterministic NAT, Endpoint-Independent Mapping and Filtering, Hairpinning
- Application Layer Gateways: FTP, TFTP, ICMP, SIP, RTSP, PPTP, GRE

Subscriber-aware traffic steering

- Policy control interface: Gx

Application acceleration

TCP optimization

- Multiplexing, buffering, connection keep-alive, windows scaling, selective acknowledgement, fast ramp, TCP Westwood
- AppCompress
- Gzip-based compression for HTTP traffic AppCache³
- Caching for static and dynamic application content
- HTTP GET and POST method support
- Policies defined based upon HTTP header and body values

Application security

DoS attack defense

- Continue service to legitimate users while protecting against attacks such as SYN Flood, HTTP DoS, and Ping of Death
- ICMP and UDP rate control

Content rewriting and response control

- Policy-based bidirectional rewriting of HTTP header and payload elements
- Policy-based redirection of incoming requests
- Body URL rewrite
- Responder module
- Custom responses and redirects
- Policy-based routing
- Network aware policies

DNSSEC

- DNS proxy
- Authoritative DNS
- DNS signing

Packet filtering

- Layer 3 and 4 Access Control Lists (ACL)
- Network Address Translation (NAT)
- IPv4/IPv6 Network Address Translation (NAT)

NetScaler web app firewall with hybrid security model³

- Positive security model protects against: buffer overflow, CGI- BIN parameter manipulation, form/ hidden field manipulation, forceful browsing, cookie or session poisoning, broken ACLs, cross-site scripting (XSS), command injection, SQL injection, error triggering sensitive information leak, insecure use of cryptography, server misconfiguration, back doors and debug options, rate-based policy enforcement, well known platform vulnerabilities, zero-day exploits, cross site request forgery (CSRF), credit card and other sensitive data leakage prevention
- Negative security model with automatically updated

signatures to protect against L7 and HTTP application vulnerabilities

- Integrates with third-party scanning tools
- Common event format (CEF) logs
- XML security: XML denial of service (xDoS)
- XML SQL injection and cross site scripting, XML message validation, format checks, WS-I basic profile compliance, XML, XPath injection attachment check, xQuery Injection protection
- WSDL scan prevention
- Attachment checks
- URL transformation
- Cookie proxy and encryption
- SOAP array attack protection

IP reputation service

- Enhanced service that provides a continuously updated list of malicious IP addresses in near realtime

Cloud connector for Citrix Networking³

- Network connectivity protection via IPsec security
- Datacenter extension through GRE-based network bridging

Support for Citrix Endpoint Management MDM⁵

- Front end optimization scalable to over 100,000 concurrent users
- NetScaler Gateway connector for Exchange ActiveSync provides a device level authorization service
- Application level policy controlled SSL VPN tunneling for mobile clients

Network integration

- Static routes, monitored static routes, weighted static routes
- OSPF, RIP1/2, BGP2
- VLAN 802.1Q
- Link Aggregation 802.3ad
- Stateful IPv6 to IPv4 network address translation and DNS64
- Static and stateless network address translation from IPv4 to IPv6

High availability

- Active/Passive
- Active/Active
- VRRP
- ECMP
- Connection mirroring

Simplified installation and management

User interface

- Graphical application visualizer
- Secure web-based GUI
- CLI, Telnet, SSH, Console
- Real-time performance dashboard
- LB, GSLB Application Firewall and configuration wizards for monitoring
- Citrix Virtual Apps configuration wizards

Policy management

- AppExpert Visual Policy Builder
- Policy extensibility via HTTP service callouts
- AppExpert templates
- AppExpert Visualizers

Command center

- Centralized configuration and management of over 200 NetScaler appliances

NetScaler management plane

- NetScaler's management system is a software solution enabling traffic visibility; it includes HDX Insight and Web Insight and is based on AppFlow
- HDX Insight parses ICA sessions to provide troubleshooting, network analysis, and end-to-end performance for Citrix Virtual Apps and Desktops sessions. Historical data included in Premium Edition.

- Web insight monitors real-time web application traffic and assists capacity planning and helps ensure SLAs AppFlow Standards-based NetFlow/IPFIX (Internet Protocol Information Export) solution
- Supported by leading performance monitoring and management vendors
- Provides transaction level visibility for HTTP, SSL, TCP, and SSL/TCP flows

Action analytics

- Aggregates real-time traffic statistics and enables their use in setting dynamic policies
- Charting and analysis utilities using HDX Insight

Third-party management support

- SNMPv1, SNMPv2, and SNMPv3: NetScaler MIB and MIB-II support
- Terraform infrastructure as code support
- Ansible automation support
- XML/SOAP API for automated application-driven configuration

Real-time consolidated logging

- Offloads logging from application server to a central location

Lower total cost of ownership

Web cache redirection²

- Automatically direct requests with content not cached on ADC to cache farm
- N-tier multilayer load balancing support of cache servers

2. Available in NetScaler Advanced and Premium editions only.

3. Included in Premium edition only; not available with Advanced editions.

4. Available as a license upgrade on all editions MPX, VPX appliances.

5. Premium edition recommended.