

Citrix NetScaler



The world's most advanced cloud network platform

Citrix® NetScaler® is the industry's leading web application delivery solution, and maximizes the performance and availability of all applications and data. NetScaler products are easily selected by determining the edition providing functional needs and the appropriate physical or virtual appliance platform to fulfill performance needs.

Feature	Platinum Edition	Enterprise Edition	Standard Edition
Application availability			
L4 load balancing and L7 content switching	●	●	●
Database load balancing ¹	●	●	●
AppExpert rate controls	●	●	●
IPv6 support	●	●	●
Traffic domains	●	●	●
Global server load balancing (GSLB)	●	●	●
Dynamic routing protocols	●	●	●
Surge protection and priority queuing	●	●	●
TriScale™ clustering	●	●	●
Application acceleration			
Client and server TCP optimizations	●	●	●
Citrix® AppCompress™ for HTTP	●	●	●
Citrix® AppCache™	●	●	●
NetScaler CloudConnectors™	●	●	●
Citrix® Branch Repeater® client	●	●	●
Application security			
L4 DoS defenses	●	●	●
L7 content filtering and HTTP/URL rewrite	●	●	●
NetScaler Gateway™, SSL VPN	●	●	●
XenMobile NetScaler Connector	●	●	●
SAML2 support	●	●	●
L7 DoS defenses	●	●	●
AAA for traffic management	●	●	●
Citrix Application Firewall™ with XML security	●	●	●
NetScaler Cloud Bridge	●	●	●
Simple manageability			
NetScaler Insight Center and AppFlow®	●	●	●
AppExpert visual policy builder	●	●	●
ActionAnalytics	●	●	●
AppExpert service callouts, templates and Visualizers	●	●	●
Role-based administration and AAA for administration	●	●	●
Configuration wizards	●	●	●
Native Citrix Web Interface	●	●	●
Citrix® Command Center	●	●	●
Citrix® EdgeSight® for NetScaler	●	●	●
Web 2.0 optimization			
Rich Internet application support and XML XPath support	●	●	●
Advanced server offload	●	●	●
Lower TCO			
TCP buffering	●	●	●
TCP and SQL multiplexing	●	●	●
SSL offload and acceleration	●	●	●
Cache redirection including multi-layer support	●	●	●

● Standard ● Option

Note: Only TriScale Clustering is available as a separately purchasable option for NetScaler VPX virtual appliances.

NetScaler Platform	MPX 22120	MPX 22100	MPX 22080	MPX 22060
Platform attributes				
Processor	Dual Intel E5-2690	Dual Intel E5-2690	Dual Intel E5-2690	Dual Intel E5-2690
Memory	256 GB	256 GB	256 GB	256 GB
Ethernet ports	24x 10GBASE-X SFP+ OR (for NEBS models) 24x 10GBASE-X SFP+ 12x 1000BASE-X SFP (fiber or copper)	24x 10GBASE-X SFP+ OR (for NEBS models) 24x 10GBASE-X SFP+ 12x 1000BASE-X SFP (fiber or copper)	24x 10GBASE-X SFP+ OR (for NEBS models) 24x 10GBASE-X SFP+ 12x 1000BASE-X SFP (fiber or copper)	24x 10GBASE-X SFP+ OR (for NEBS models) 24x 10GBASE-X SFP+ 12x 1000BASE-X SFP (fiber or copper)
Transceivers support	10GE SFP+: SR, LR 1 GE SFP: SX, LX	10GE SFP+: SR, LR 1 GE SFP: SX, LX	10GE SFP+: SR, LR 1 GE SFP: SX, LX	10GE SFP+: SR, LR 1 GE SFP: SX, LX
Pay as you grow and BurstPack license upgrades		Upgrade option to MPX 22120	Upgrade option to MPX 22100 and MPX 22120	Upgrade option to MPX 22080, 22100 and MPX 22120
Platform performance				
System throughput, Gbps	120	100	80	60
HTTP requests/sec (MPX/SDX)	4,700,000	4,500,000	4,000,000	3,500,000
SSL transactions/sec (2K key certificates)	560,000 155,000 (NEBS)	460,000 130,000 (NEBS)	340,000 80,000 (NEBS)	225,000 65,000 (NEBS)
SSL throughput, Gbps	75 42 (NEBS)	65 35 (NEBS)	55 30 (NEBS)	45 22 (NEBS)
Compression throughput, Gbps	14.7	14	12.5	11
SSL VPN: concurrent users	10,000	10,000	10,000	10,000
Maximum number of instances (for SDX models)	Not applicable	Not applicable	Not applicable	Not applicable
Platform mechanical, environmental and regulatory				
Power supplies	Dual	Dual	Dual	Dual
Input voltage and frequency ranges	100-240VAC full range, 47-63 Hz	100-240VAC full range, 47-63 Hz	100-240VAC full range, 47-63 Hz	100-240VAC full range, 47-63 Hz
Optional DC power supply	Yes	Yes	Yes	Yes
Max power supply	1100W 3753 BTU/Hr	1100W 3753 BTU/Hr	1100W 3753 BTU/Hr	1100W 3753 BTU/Hr
Typical power consumption	850W 2900 BTU/Hr	850W 2900 BTU/Hr	850W 2900 BTU/Hr	850W 2900 BTU/Hr
Weight, lbs	58	58	58	58
Height	2U	2U	2U	2U
Width	EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets	EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets	EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets	EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets
Depth	28" / 71.2 cm	28" / 71.2 cm	28" / 71.2 cm	28" / 71.2 cm
Operating temperature	0-40C	0-40C	0-40C	0-40C
Allowed relative humidity	5%-95%, non-condensing	5%-95%, non-condensing	5%-95%, non-condensing	5%-95%, non-condensing
Safety certifications	CSA	CSA	CSA	CSA
Electromagnetic emissions certifications and susceptibility standards	FCC (Part 15 Class A), DoC, CE, VCCI, CNS, AN/NES	FCC (Part 15 Class A), DoC, CE, VCCI, CNS, AN/NES	FCC (Part 15 Class A), DoC, CE, VCCI, CNS, AN/NES	FCC (Part 15 Class A), DoC, CE, VCCI, CNS, AN/NES
Regulatory compliance	RoHS; NEBS Level 3 available	RoHS; NEBS Level 3 available	RoHS; NEBS Level 3 available	RoHS; NEBS Level 3 available

NetScaler Platform	MPX 22040	MPX / SDX ² 21550	MPX / SDX ² 20550	MPX / SDX ² 19550
Platform attributes				
Processor	Dual Intel E5-2690	Dual Intel Xeon X5680	Dual Intel X5680	Dual Intel X5680
Memory	256 GB	96 GB	96 GB	96 GB
Ethernet ports	24x 10GBASE-X SFP+ OR (for NEBS models) 24x 10GBASE-X SFP+ 12x 1000BASE-X SFP (fiber or copper)	8x 10GBASE-X SFP+	8x 10GBASE-X SFP+	8x 10GBASE-X SFP+
Transceivers support	10GE SFP+: SR, LR 1 GE SFP: SX, LX	10GE SFP+: SR, LR	10GE SFP+: SR, LR	10GE SFP+: SR, LR
Pay as you grow and BurstPack license upgrades	Upgrade option to MPX 22060, MPX 22080, 22100 and MPX 22120		Upgrade option to MPX / SDX 21550	Upgrade option to MPX / SDX 20550 and MPX / SDX 21550
Platform performance				
System throughput, Gbps	40	50	40	30
HTTP requests/sec (MPX / SDX)	2,600,000	3,700,000	3,500,000	3,000,000
SSL transactions/sec (2K key certificates)	120,000 40,000 (NEBS)	98,000	73,000 (MPX) 68,000 (SDX)	50,000
SSL throughput, Gbps	35 18 (NEBS)	11	10	9
Compression throughput, Gbps	8	11 (MPX) / 10 (SDX)	9	8
SSL VPN: concurrent users	10,000	10,000	10,000	10,000
Maximum number of instances (for SDX models)	Not applicable	40	40	40
Platform mechanical, environmental and regulatory				
Power supplies	Dual	Dual	Dual	Dual
Input voltage and frequency ranges	100-240VAC full range, 47-63 Hz	100-240VAC full range, 47-63 Hz	100-240VAC full range, 47-63 Hz	100-240VAC full range, 47-63 Hz
Optional DC power supply	Yes	Yes	Yes	Yes
Max power consumption	1100W 3753 BTU/Hr	850W 2900 BTU/Hr	850W 2900 BTU/Hr	850W 2900 BTU/Hr
Typical power consumption	850W 2900 BTU/Hr	570W 1945 BTU/Hr	570W 1945 BTU/Hr	570W 1945 BTU/Hr
Weight, lbs	58	49	49	49
Height	2U	2U	2U	2U
Width	EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets	EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets	EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets	EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets
Depth	28" / 71.2 cm	28" / 71.2 cm	28" / 71.2 cm	28" / 71.2 cm
Operating temperature	0-40C	0-40C	0-40C	0-40C
Allowed relative humidity	5%-95%, non-condensing	5%-95%, non-condensing	5%-95%, non-condensing	5%-95%, non-condensing
Safety certifications	CSA	CSA	CSA	CSA
Electromagnetic emissions certifications and susceptibility standards	FCC (Part 15 Class A), DoC, CE, VCCI, CNS, AN/NES	FCC (Part 15 Class A), DoC, CE, VCCI, CNS, AN/NES	FCC (Part 15 Class A), DoC, CE, VCCI, CNS, AN/NES	FCC (Part 15 Class A), DoC, CE, VCCI, CNS, AN/NES
Regulatory compliance	RoHS; NEBS Level 3 available	RoHS	RoHS	RoHS

NetScaler Platform	MPX / SDX ² 17550	MPX 20500 / SDX ² 20500	MPX 18500 / SDX ² 18500	MPX 16500 / SDX ² 16500
Platform attributes				
Processor	Dual Intel X5680	Dual Intel Xeon E5645	Dual Intel Xeon E5645	Dual Intel Xeon E5645
Memory	96 GB	48 GB	48 GB	48 GB
Ethernet ports	8x 10GBASE-X SFP+	4x10GBASE-X SFP+ AND 8x1000BASE-X SFP (fiber or copper)	4x10GBASE-X SFP+ AND 8x1000BASE-X SFP (fiber or copper)	4x10GBASE-X SFP+ AND 8x1000BASE-X SFP (fiber or copper)
Transceivers support	10GE SFP+: SR, LR	10GE SFP+: SR, LR 1 GE SFP: SX, LX	10GE SFP+: SR, LR 1 GE SFP: SX, LX	10GE SFP+: SR, LR 1 GE SFP: SX, LX
Pay as you grow and BurstPack license upgrades	Upgrade option to MPX / SDX 19550, MPX / SDX 20550 and MPX / SDX 21550		Upgrade option to MPX /SDX 20500	Upgrade options to MPX / SDX 18500 and MPX / SDX 20500
Platform performance				
System throughput, Gbps	20	42	36	24
HTTP requests/sec (MPX / SDX)	2,400,000	2,700,000 / 2,300,000	2,500,000	2,000,000
SSL transactions/sec (2K key certificates)	33,000	45,000	34,000	28,000
SSL throughput, Gbps (MPX / SDX)	8	11 / 10.4	10.5	10
Compression throughput, Gbps (MPX / SDX)	7	8 / 7.1	7.0	6.0
SSL VPN: concurrent users	10,000	10,000	10,000	10,000
Maximum number of instances (for SDX models)	40	20	20	20
Platform mechanical, environmental and regulatory				
Power supplies	Dual	Dual	Dual	Dual
Input voltage and frequency ranges	100-240VAC full range, 47-63 Hz	100-240VAC full range, 47-63 Hz	100-240VAC full range, 47-63 Hz	100-240VAC full range, 47-63 Hz
Optional DC power supply	Yes	Yes	Yes	Yes
Max power consumption	850W 2900 BTU/Hr	650W 2219 BTU/Hr	650W 2219 BTU/Hr	650W 2219 BTU/Hr
Typical power consumption	570W 1945 BTU/Hr	500W 1706 BTU/Hr	500W 1706 BTU/Hr	500W 1706 BTU/Hr
Weight, lbs	49	45	45	45
Height	2U	2U	2U	2U
Width	EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets	EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets	EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets	EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets
Depth	28" / 71.2 cm	28" / 71 cm	28" / 71 cm	28" / 71 cm
Operating temperature	0-40C	0-40C	0-40C	0-40C
Allowed relative humidity	5%-95%, non-condensing	5%-95%, non-condensing	5%-95%, non-condensing	5%-95%, non-condensing
Safety certifications	CSA	CSA	CSA	CSA
Electromagnetic emissions certifications and susceptibility standards	FCC (Part 15 Class A), DoC, CE, VCCI, CNS, AN/NES	FCC (Part 15 Class A), DoC, CE, VCCI, CNS, AN/NES	FCC (Part 15 Class A), DoC, CE, VCCI, CNS, AN/NES	FCC (Part 15 Class A), DoC, CE, VCCI, CNS, AN/NES
Regulatory compliance	RoHS	RoHS; NEBS Level 3 available	RoHS; NEBS Level 3 available	RoHS; NEBS Level 3 available

NetScaler Platform	MPX 15500 FIPS	MPX 14500 / SDX ² 14500	MPX 13500 / SDX ² 13500	MPX 12500 FIPS
Platform attributes				
Processor	Dual Intel Xeon E5440	Dual Intel Xeon E5645	Dual Intel Xeon E5645	Dual Intel Xeon E5440
Memory	16 GB	48 GB	48 GB	16 GB
Ethernet ports	2x 10GBASE-X SFP+ AND 8x 1000BASE-X SFP (fiber or copper)	4x10GBASE-X SFP+ AND 8x1000BASE-X SFP (fiber or copper)	4x10GBASE-X SFP+ AND 8x1000BASE-X SFP (fiber or copper)	2x 10GBASE-X SFP+ AND 8x 1000BASE-X SFP (fiber or copper)
Transceivers support	10GE SFP+: SR, LR; 1 GE SFP: SX, LX	10GE SFP+: SR, LR; 1 GE SFP: SX, LX	10GE SFP+: SR, LR; 1 GE SFP: SX, LX	10GE SFP+: SR, LR; 1 GE SFP: SX, LX
Pay as you grow and BurstPack license upgrades		Upgrade options to MPX / SDX 16500, MPX / SDX 18500, and MPX / SDX 20500	Upgrade options to MPX / SDX 14500, MPX / SDX 16500, MPX / SDX 18500 and MPX / SDX 20500	Upgrade option to FIPS version of MPX 15500
Platform performance				
System throughput, Gbps	15	18	12	10
HTTP requests/sec (MPX / SDX)	1,200,000	1,800,000	1,600,000	700,000
SSL transactions/sec (2K key certificates)	8,000	22,000	19,000	6,000
SSL throughput, Gbps (MPX / SDX)	4.5	7	6.5	3.6
Compression throughput, Gbps (MPX / SDX)	6.5	5	4.5	6
SSL VPN: concurrent users	10,000	10,000	10,000	10,000
Maximum number of instances (for SDX models)	Not applicable	20	20	Not applicable
Platform mechanical, environmental and regulatory				
Power supplies	Dual	Dual	Dual	Dual
Input voltage and frequency ranges	100-240VAC full range, 47-63 Hz	100-240VAC full range, 47-63 Hz	100-240VAC full range, 47-63 Hz	100-240VAC full range, 47-63 Hz
Optional DC power supply	Yes	Yes	Yes	Yes
Max power consumption	450W 1536 BTU/Hr	650W 2219 BTU/Hr	650W 2219 BTU/Hr	450W 1536 BTU/Hr
Typical power consumption	360W 1229 BTU/Hr	500W 1706 BTU/Hr	500W 1706 BTU/Hr	360W 1229 BTU/Hr
Weight, lbs	30	45	45	30
Height	2U	2U	2U	2U
Width	EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets	EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets	EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets	EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets
Depth	28" / 71 cm	28" / 71 cm	28" / 71 cm	28" / 71 cm
Operating temperature	0-40C	0-40C	0-40C	0-40C
Allowed relative humidity	5%-95%, non-condensing	5%-95%, non-condensing	5%-95%, non-condensing	5%-95%, non-condensing
Safety certifications	CSA	CSA	CSA	CSA
Electromagnetic emissions certifications and susceptibility standards	FCC (Part 15 Class A), DoC, CE, VCCI, CNS, AN/NES	FCC (Part 15 Class A), DoC, CE, VCCI, CNS, AN/NES	FCC (Part 15 Class A), DoC, CE, VCCI, CNS, AN/NES	FCC (Part 15 Class A), DoC, CE, VCCI, CNS, AN/NES
Regulatory compliance	RoHS; FIPS 140-2, Level 2	RoHS; NEBS Level 3 available	RoHS; NEBS Level 3 available	RoHS; FIPS 140-2, Level 2

NetScaler Platform	MPX 11500 / SDX ² 11500	MPX 10500 FIPS	MPX/SDX ² 8600	MPX/SDX ² 8400
Platform attributes				
Processor	Dual Intel Xeon E5645	Dual Intel Xeon E54	Intel E3-1275	Intel E3-1275
Memory	48 GB	16 GB	32 GB	32 GB
Ethernet ports	4x10GBASE-X SFP+ AND 8x1000BASE-X SFP (fiber or copper)	2x 10GBASE-X SFP+ AND 8x 1000BASE-X SFP (fiber or copper)	6x 10/100/1000 BASE-T AND 6x1000BASE-X SFP (fiber or copper) OR 6x 10/100/1000 BASE-T AND 2x10G BASE-X SFP+	6x 10/100/1000 BASE-T AND 6x1000BASE-X SFP (fiber or copper) OR 6x 10/100/1000 BASE-T AND 2x10G BASE-X SFP+
Transceivers support	10GE SFP+: SR, LR; 1 GE SFP: SX, LX	10GE SFP+: SR, LR; 1 GE SFP: SX, LX	10GE SFP+: SR, LR; 1 GE SFP: SX, LX	10GE SFP+: SR, LR; 1 GE SFP: SX, LX
Pay as you grow and BurstPack license upgrades	Upgrade options to MPX / SDX 13500, MPX / SDX 14500, MPX / SDX 16500, MPX / SDX 18500 and MPX / SDX 20500	Upgrade option to FIPS versions of MPX 12500 and MPX 15500		Upgrade option to MPX/SDX 8600
Platform performance				
System throughput, Gbps	8	6	6	4
HTTP requests/sec	1,200,000	500,000	900,000	600,000
SSL transactions/sec (2K key certificates)	15,000	4,000	9,000 (MPX) 10,000 (SDX)	7,600 (MPX) 8,000 (SDX)
SSL throughput, Gbps	6	2.0	5.5	4 (MPX) 3.5 (SDX)
Compression throughput, Gbps	3.5	5	3.2	2.4
SSL VPN: concurrent users	10,000	10,000	10,000	10,000
Maximum number of instances (for SDX models)	20	Not applicable	5	5
Platform mechanical, environmental and regulatory				
Power supplies	Dual	Dual	Single plus optional second supply	Single plus optional second supply
Input voltage and frequency ranges	100-240VAC full range, 47-63 Hz	100-240VAC full range, 47-63 Hz	100-240VAC full range, 47-63 Hz	100-240VAC full range, 47-63 Hz
Optional DC power supply	Yes	Yes	Yes	Yes
Max power consumption	650W 2219 BTU/Hr	450W 1536 BTU/Hr	250W 853 BTU/Hr	250W 853 BTU/Hr
Typical power consumption	500W 1706 BTU/Hr	360W 1229 BTU/Hr	185W 631 BTU/Hr	185W 631 BTU/Hr
Weight, lbs	45	30	32	32
Height	2U	2U	1U	1U
Width	EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets	EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets	EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets	EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets
Depth	28" / 71 cm	28" / 71 cm	24" / 61 cm	24" / 61 cm
Operating temperature	0-40C	0-40C	0-40C	0-40C
Allowed relative humidity	5%-95%, non-condensing	5%-95%, non-condensing	10%-90%, non-condensing	10%-90%, non-condensing
Safety certifications	CSA	CSA	CSA	CSA
Electromagnetic emissions certifications and susceptibility standards	FCC (Part 15 Class A), DoC, CE, VCCI, CNS, AN/NES	FCC (Part 15 Class A), DoC, CE, VCCI, CNS, AN/NES	FCC (Part 15 Class A), DoC, CE, VCCI, CNS, AN/NES	FCC (Part 15 Class A), DoC, CE, VCCI, CNS, AN/NES
Regulatory compliance	RoHS; NEBS Level 3 available	RoHS; FIPS 140-2, Level 2	RoHS	RoHS

NetScaler Platform	MPX 8200	MPX 9700 FIPS	MPX 5650	MPX 5550
Platform attributes				
Processor	Intel E3-1275	Dual Intel Xeon E5440	Intel E3-1225	Intel E3-1225
Memory	32 GB	16 GB	8 GB	8 GB
Ethernet ports	6x 10/100/1000 BASE-T AND 6x1000BASE-X SFP (fiber or copper) OR 6x 10/100/1000 BASE-T AND 2x10G BASE-X SFP+	2x 10GBASE-X SFP+ AND 8x 1000BASE-X SFP (fiber or copper)	6x10/100/1000 BASE-T	6x10/100/1000 BASE-T
Transceivers support	10GE SFP+: SR, LR; 1 GE SFP: SX, LX	10GE SFP+: SR, LR; 1 GE SFP: SX, LX		
Pay as you grow and BurstPack license upgrades	Upgrade option to MPX 8400 and MPX 8600	Upgrade option to FIPS versions of MPX 10500, MPX 12500 and MPX 15500		Upgrade option to MPX 5650
Platform mechanical, environmental and regulatory				
System throughput, Gbps	2	3	1	0.5
HTTP requests/sec	350,000	200,000	250,000	175,000
SSL transactions/sec (2K key certificates)	6,500	2,000	2,000	1,500
SSL throughput, Gbps	2	1.0	1	0.5
Compression throughput, Gbps	2	2	1	0.5
SSL VPN: concurrent users	10,000	10,000	5,000	5,000
Maximum number of instances (for SDX models)	Not applicable	Not applicable	Not applicable	Not applicable
Platform mechanical, environmental and regulatory				
Power supplies	Single plus optional second supply	Dual	Single only	Single only
Input voltage and frequency ranges	100-240VAC full range, 47-63 Hz	100-240VAC full range, 47-63 Hz	100-240VAC full range, 47-63 Hz	100-240VAC full range, 47-63 Hz
Optional DC power supply	Yes	Yes	No	No
Max power consumption	250W 853 BTU/Hr	450W 1536 BTU/Hr	180W 614 BTU/Hr	180W 614 BTU/Hr
Typical power consumption	185W 631 BTU/Hr	360W 1229 BTU/Hr	135W 461 BTU/Hr	135W 461 BTU/Hr
Weight, lbs	32	30	32	32
Height	1U	2U	1U	1U
Width	EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets	EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets	EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets	EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets
Depth	24" / 61 cm	28" / 71 cm	24" / 61 cm	24" / 61 cm
Operating temperature	0-40C	0-40C	0-40C	0-40C
Allowed relative humidity	10%-90%, non-condensing	5%-95%, non-condensing	10%-90%, non-condensing	10%-90%, non- condensing
Safety certifications	CSA	CSA	CSA	CSA
Electromagnetic emissions certifications and susceptibility standards	FCC (Part 15 Class A), DoC, CE, VCCI, CNS, AN/NES	FCC (Part 15 Class A), DoC, CE, VCCI, CNS, AN/NES	FCC (Part 15 Class A), DoC, CE, VCCI, CNS, AN/NES	FCC (Part 15 Class A), DoC, CE, VCCI, CNS, AN/NES
Regulatory compliance	RoHS	RoHS; FIPS 140-2, Level 2	RoHS	RoHS

NetScaler Platform		VPX 10 / 200 / 1000 / 3000
Platform attributes		
Processor	Minimum Server Req: ³	
Memory	Dual core server with Intel® VTx or AMD-V™	
Ethernet ports	<ul style="list-style-type: none"> • Citrix® XenServer® 5 (update 3 or better) • Windows Server 2008 R2 with Hyper-V role • VMWare ESX/ESXi 3.5 or higher • 4G RAM/20 GB hard drive • Hypervisor supported NIC 	
Transceivers support		
Pay as you grow and BurstPack license upgrades	Upgrade options to VPX 200, VPX 1000 and VPX 3000	
Platform performance		
System throughput, Gbps	Up to 3.0 ⁴	
HTTP requests/sec	Up to 100,000	
SSL transactions/sec (2K key certificates)	Up to 100	
SSL throughput, Gbps	Up to 1.0	
Compression throughput, Gbps	Up to 0.75	
SSL VPN: concurrent users	Up to 500 ⁵	
Maximum number of instances (for SDX models)	Not applicable	
mechanical, environmental and regulatory		
Power supplies	Dependent on server platform chosen	
Input voltage and frequency ranges		
Optional DC power supply		
Max power consumption		
Typical power consumption		
Weight, lbs		
Height		
Width		
Depth		
Operating temperature		
Allowed relative humidity		
Safety certifications		
Electromagnetic emissions certifications and susceptibility standards		
Regulatory compliance		

Technical aspects

L4-7 traffic management

Layer 4 load balancing (LB)

- Protocols supported: TCP, UDP, FTP, HTTP, HTTPS, DNS (TCP and UDP), SIP (over UDP), RTSP, RADIUS, DIAMETER, SQL, RDP, IS-IS
- 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, JSESSIONID
- Session protocols: TCP, UDP, SSL_TCP, Multipath TCP, SPDY
- Server monitoring: Ping, TCP, URL, ECV, scriptable health checks, Dynamic Server Response Time
- Link load balancing
- Citrix Branch Repeater 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 clustering⁸

- "Scale-Out" with clustering up to 32 NetScaler appliances into single system image
- Configuration Coordinator node for centralized management and synchronization
- Compatible with Pay-As-You-Grow and Burst Pack performance upgrades
- Traffic distribution mechanisms include: Equal Cost Multiple Path (ECMP), Linksets, and Cluster Link Aggregation Group (CLAG)
- Available on NetScaler MPX, SDX and VPX and with all editions
- Modules may be configured on all nodes in a cluster or using "spotted VIPS" they are added only to a select subset of nodes

Rate-based policy enforcement

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

Traffic Domains

- Allows overlapping IP addresses
- Provides separate routing flows within a single appliance
- Enables basic multi-tenancy implementations

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 queuing⁶

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

Application acceleration

TCP optimization

- Multiplexing, Buffering, Connection Keep-alive, Windows Scaling, Selective Acknowledgement, Fast Ramp, TCP Westwood

AppCompress

- Gzip-based compression for HTTP traffic AppCache⁹
- Caching for static and dynamic application content
- HTTP GET and POST method support
- Policies defined based upon HTTP header and body values

NetScaler CloudConnectors

- On-premise proxy providing symmetric TCP optimizations, data compression and data de-duplication
- Available on NetScaler MPX, SDX and VPX

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 Application Firewall with hybrid security model⁹

- 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 proxying and encryption
- SOAP array attack protection

Secure access

- Integrated Citrix NetScaler Gateway Enterprise Edition SSL VPN
- Endpoint analysis
- SAML 2-factor and client certificate authentication; passwords for single sign on to backend services stored on NetScaler
- Client-side cache cleanup
- Security certifications
- Layer 7 content filtering
- AAA traffic management
- SAML 2 and NTLMv1/2 support for configuring NetScaler with single sign-on (SSO)
- Active Directory, LDAP, RADIUS, TACACS+, OCSP

NetScaler Cloud Bridge⁷

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

Support for XenMobile MDM⁹

- Front end optimization scalable to over 100,000 concurrent users
- XenMobile NetScaler Connector (XNC) provides a device level authorization service
- Application level policy controlled SSL VPN tunneling for mobile clients

Technical aspects

Network integration

- Static routes, monitored static routes, weighted static routes
- OSPF, RIP1/2, BGP⁹
- 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 EdgeSight for NetScaler configuration wizards
- Citrix® XenApp® configuration wizards

Policy management

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

Citrix Command Center⁶

- Centralized configuration and management of over 200 NetScaler appliances.

NetScaler Insight Center and AppFlow:

- NetScaler Insight Center 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 XenApp/XenDesktop sessions. Historical data included in Platinum Edition.

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

ActionAnalytics

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

EdgeSight for NetScaler⁶

- Real-time and historical user experience monitoring
- Trending and reporting for web application performance service level management

Third party management support

- SNMPv1, SNMPv2 and SNMPv3: NetScaler MIB and MIB-II support
- Microsoft System Center Operations Management (SCOM) support
- Microsoft System Center Virtual Machine Manager (SCVMM) support
- XML/SOAP API for automated application-driven configuration

Real-time consolidated logging

- Offloads logging from application server to central location

Native Web Interface

- Integrated Web Interface Server for Citrix XenApp and XenDesktop
- Supports JAVA environments with MPX and VPX platforms running NetScaler nCore OS
- Authentication methods include: LDAP, RADIUS, NTLM, TACACS+, Client Certificate
- Manage HTTPS requests via included SSL VPN
- Wizards-based configuration through NetScaler GUI
- Login page customization
- Includes Smart Access, smooth roaming, STA server redundancy, and session reliability

Lower total cost of ownership

Web cache redirection⁶

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

Notes:

1. SQL requests per second (RPS) are rate limited on select models. VPX 10 through VPX 1000 models: 200. For MPX 5500, 5550, 5650, 7500 and 9500 models: 1000. For MPX 8200: 2000. For MPX 8400 and 8600: 5000. For all other models above these, there are no SQL RPS rate limits.
2. SDX models ship with a Platinum Edition license and include 5 NetScaler instances (except SDX 8400 and SDX 8600 models which include two instances.) Additional NetScaler packs with 3 or 5 instances each are available. All instances may be configured for any NetScaler Edition.
3. Listed hardware requirements are for NetScaler VPX nCore version. NetScaler VPX classic builds are available with a smaller server footprint and a reduced feature set.
4. Maximum HTTP throughput for VPX running on XenServer and Hyper-V is less than 3Gbps
5. Using 3DES algorithm. Up to 1,000 concurrent users using RC4 algorithm.
6. Available in NetScaler Enterprise and Platinum Editions only.
7. Included in Platinum Edition only; not available with Standard or Enterprise Editions.
8. Available as a license upgrade on all editions and for MPX, SDX (excluding 22000 series) and VPX appliances.
9. Enterprise Edition with AppCache or Platinum Edition recommended.



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