CİTRIX®

NetScaler

The world's most advanced cloud network platform

NetScaler is the industry's leading web and application delivery controller that maximizes the performance and availability of all applications and data, and also provide secure remote access to any application from any device type. 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	NetScaler Gateway	*Universal license
Application availability					
L4 load balancing and L7 content switching	•	•	•		
Microsoft SQL, MYSQL	•	•	•		
AppExpert rate controls	•	•	•		
IPv6 support	•	•	•		
Traffic domains	•	•	•		
Subscriber-aware traffic steering	•	•	•		
Global server load balancing (GSLB)	•	•	•		
Carrier-Grade Network Address Translation (CGNAT)	•	•			
Dynamic routing protocols	•	•			
Surge protection and priority queuing	•	•			
TriScale Clustering	•	•			
Application acceleration					
Client and server TCP optimizations	•	•	•		
AppCompress	•	•	•		
AppCache	•	•			
Application security					
L4 DoS defenses	•	•	•		
L7 DoS defenses	•	•			
L7 rewrite and responder	•	•	•		
NetScaler Gateway, SSL VPN	•	•	•		
XenMobile NetScaler connector	•	•			
SAML2 support	•	•	•		
AAA for traffic management	•	•			
NetScaler AppFirewall with XML security	•	•			
NetScaler CloudBridge connector	•				
Front-end optimization*					
Content layout	•	•			
Domain sharding	•	•			
Image optimization	•	•			
Style sheets and JavaScript optimization	•	•			
TCP Protocol optimization					
Multi-path TCP	•	•	•		
BIC and cubic TCP	•	•	•		

* All front end optimization features require cache license

Feature	Platinum edition	Enterprise edition	Standard edition	NetScaler Gateway	*Universal license
Simple manageability					
NetScaler Insight Center-Web Insight	•	•	•		
NetScaler Insight Center-HDX Insight	•	•			
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	•	•	•		
Unified Gateway					
Federated Identity	•	•			
One URL	•	•			
Broad client support for plugins	•	•	•	•	•
Customizable web portal	•	•	•	•	•
Centralized Policy Management (SmartControl)	•				•
SSL VPN remote access	•	•	•	•	•
Stateless RDP proxy	•	•	•		•
Cluster for ICA proxy (Striped)	•	•	•		
IPv6 support	•	•	•		
NetScaler Gateway					
ICA proxy to XenApp and XenDesktop	•	•	•	•	
Contextual policies for XenApp/XenDesktop (SmartAccess)	•	•	•	•	•
Monitoring of XenApp/XenDesktop traffic (Real time)	•	•			
Monitoring of XenApp/XenDesktop traffic (Historical)	•				
End Point Analysis	•	•	•	•	•
Secure browser-only access (CVPN)	•	•	•	•	•

• Standard • Option

*Universal license is required on top of a NetScaler (Platinum, Enterprise, Standard) or a Gateway (AGEE) license.

NetScaler Platform	MPX 25160T	MPX 25100T
Platform attributes		
Processor	Dual Intel E5-2680v2	Dual Intel E5-2680v2
Memory	128	128
Ethernet ports*	32x10G SFP+	32x10G SFP+
Transceivers support	10GE SFP+; 1G SFP - Cu	10GE SFP+; 1G SFP - Cu
Pay as you grow and BurstPack license upgrades		Upgrade option to MPX 25160T
Platform performance		
System throughput, Gbps (L7 throughput)	160	100
L7 HTTP requests/sec	4,600,000	3,200,000
SSL transactions/sec (2K key certificates)	2,000	1,400
SSL throughput, Gbps	21	15
Compression throughput, Gbps	14	10 .5
ICA Proxy concurrent users	35,000	35,000
Number of instances included (For SDX models)	Not Applicable	Not Applicable
Platform mechanical, environmental and regulatory		
Power supplies	2	2
Input voltage and frequency ranges	100-240VAC full range, 50-60 Hz	100-240VAC full range, 50-60 Hz
Optional DC power supply	Yes	Yes
Max power supply	1000W	1000W
Typical/max power consumption	594W/717W	594W/717W
Weight, lbs	60	60
Height	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
Depth	28 1/4"/72 cm	28 1/4"/72 cm
Operating temperature	0-40C	0-40C
Allowed relative humidity	20%-80%, non-condensing	20%-80%, non-condensing
Safety certifications	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
Regulatory compliance	RoHS	RoHS

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

NetScaler Platform	MPX/SDX 24150	MPX/SDX 24100	MPX 22120/SDX 22120	MPX 22100/SDX 22100
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*	24X10GE SFP+ and 12XGE SFP (fiber or copper)	24X10GE SFP+ and 12XGE 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+: 1G SFP - SR, LR, Cu	10GE SFP+: 1G SFP - SR, LR, Cu	10GE SFP+: SR, LR; 1G SFP: SX, LX	10GE SFP+: SR, LR
Pay as you grow and BurstPack license upgrades		Upgrade option to MPX/SDX 24150		Upgrade option to MPX/SDX 22120
Platform performance				
System throughput, Gbps (L7 throughput)	150	100	120	100
L7 HTTP requests/sec (MPX/SDX)	5,800,000	3,500,000	4,700,000/3,700,000	4,500,000/3,700,000
SSL transactions/sec (2K key certificates)	135,000	100,000	560,000 155,000 (NEBS)	460,000 130,000 (NEBS)
SSL throughput, Gbps (MPX/SDX)	44	40	75/56 42 (NEBS)	65/56 35 (NEBS)
Compression throughput, Gbps (MPX/SDX)	14.6	10	14/12.8	14/12.8
ICA proxy concurrent users	35,000	35,000	35,000	35,000
Number of Instances included (For SDX models)	80	40	80	80
Platform mechanical, environmental and regulatory				
Power supplies	4	4	4	4
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	RoHS	RoHS; NEBS Level 3 available	RoHS; NEBS Level 3 available

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

NetScaler Platform	MPX 22080/SDX 22080	MPX 22060/SDX 22060	MPX 22040/ SDX 22040	MPX/SDX 11542
Platform attributes				
Processor	Dual Intel E5-2690	Dual Intel E5-2690	Dual Intel E5-2690	Dual Intel Xeon E5645
Memory	256 GB	256 GB	256 GB	48 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)	8x10GBASE-X SFP+ AND 4x1000BASE-X SFP (fiber or copper)
Transceivers support	10GE SFP+: SR, LR	10GE SFP+: SR, LR	10GE SFP+: SR, LR	10GE SFP+: SR, LR 1 GE SFP: SX, LX
Pay as you grow and BurstPack license upgrades	Upgrade option to MPX/SDX 22100 and 22120	Upgrade option to MPX/SDX 22080, 22100 and 22120	Upgrade option to MPX/SDX 22060, 22080, 22100 and 22120	
Platform performance				
System throughput, Gbps (L7 throughput)	80	60	40	42
L7 HTTP requests/sec (MPX/SDX)	4,000,000/3,700,000	3,500,000	2,600,000	2,700,000 /2,000,000
SSL transactions/sec (2K key certificates)	340,000 80,000 (NEBS)	225,000 65,000 (NEBS)	120,000 40,000 (NEBS)	69,000
SSL throughput, Gbps	55 30 (NEBS)	45 22 (NEBS)	35 18 (NEBS)	20.5
Compression throughput, Gbps	12.5	11	8	8/7
ICA Proxy concurrent users	35,000	35,000	35,000	20,000
Number of Instances included (For SDX models)	80	80	20	20
Platform mechanical, environmental and regulatory				
Power supplies	4	4	4	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	650W 2219 BTU/Hr
Typical power consumption	850W 2900 BTU/Hr	850W 2900 BTU/Hr	850W 2900 BTU/Hr	500W 1706 BTU/Hr
Weight, lbs	58	58	58	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" / 71.2 cm	28" / 71.2 cm	28" / 71 cm
Operating temperature	0-40C	0-40C	0-40C	0-40C
Allowed relative humity	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

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

NetScaler Platform	MPX/SDX 11540	MPX/SDX 11530	MPX/SDX 11520	MPX/SDX 11515
Platform attributes				
Processor	Dual Intel Xeon E5645	Dual Intel Xeon E5645	Dual Intel Xeon E5645	Dual Intel Xeon E5645
Memory	48 GB	48 GB	48 GB	48 GB
Ethernet ports*	8x10GBASE-X SFP+ AND 4x1000BASE-X SFP (fiber or copper)	8x10GBASE-X SFP+ AND 4x1000BASE-X SFP (fiber or copper)	8x10GBASE-X SFP+ AND 4x1000BASE-X SFP (fiber or copper)	8x10GBASE-X SFP+ AND 4x1000BASE-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/SDX 11542	Upgrade option to MPX/SDX 11540 and 11542	Upgrade option to MPX/SDX 11530, 11540 and 11542	Upgrade option to MPX/SDX 11520, 11530, 11540 and 11542
Platform performance				
System throughput, Gbps (L7 throughput)	40	30	20	15
L7 HTTP requests/sec (MPX/SDX)	2,500,000 /2,000,000	2,200,000 /2,000,000	1,800,000	1,600,000
SSL transactions/sec (2K key certificates)	43,000	30,000	25,000	22,500
SSL throughput, Gbps	19	17	15	14
Compression throughput, Gbps	7.5/7	6.5	6	5
ICA proxy concurrent users	20,000	20,000	20,000	20,000
Number of instances included (for SDX models)	20	20	20	5
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	
Max power supply	650W 2219 BTU/Hr	650W 2219 BTU/Hr	650W 2219 BTU/Hr	650W 2219 BTU/Hr
Typical power consumption	500W 1706 BTU/Hr	500W 1706 BTU/Hr	500W 1706 BTU/Hr	500W 1706 BTU/Hr
Weight, lbs	45	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 cm	28" / 71 cm	28" / 71 cm	28" / 71 cm
Operating temperature	0-40C	0-40C	0-40C	0-40C
Allowed relative humity	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	RoHS	RoHS

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

NetScaler Platform	MPX 15500 FIPS	MPX 12500 FIPS	MPX 10500 FIPS	MPX 9700 FIPS
Platform attributes				
Processor	Dual Intel Xeon E5440	Dual Intel Xeon E5440	Dual Intel Xeon E5440	Dual Intel Xeon E5440
Memory	16 GB	16 GB	16 GB	16 GB
Ethernet ports (Published Ethernet interfaces compliant per IEEE802.3-2002/2005/2008/2012)	2x 10GBASE-X SFP+ AND 8x 1000BASE-X SFP (fiber or copper)	2x 10GBASE-X SFP+ AND 8x 1000BASE-X SFP (fiber or copper)	2x 10GBASE-X SFP+ AND 8x 1000BASE-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 option to FIPS version of MPX 15500	Upgrade option to FIPS versions of MPX 12500 and MPX 15500	Upgrade option to FIPS versions of MPX 10500, MPX 12500 and MPX 15500
Platform performance				
System throughput, Gbps (L7 throughput)	15	10	6	3
L7 HTTP requests/sec (MPX/SDX)	1,200,000	700,000	500,000	200,000
SSL transactions/sec (2K key certificates)	8,000	6,000	4,000	2,000
SSL throughput, Gbps	4.5	3.6	2.0	1.0
Compression throughput, Gbps	6.5	6	5	2
ICA Proxy 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	450W 1536 BTU/Hr	450W 1536 BTU/Hr	450W 1536 BTU/Hr	450W 1536 BTU/Hr
Typical power consumption	360W 1229 BTU/Hr	360W 1229 BTU/Hr	360W 1229 BTU/Hr	360W 1229 BTU/Hr
Weight, lbs	30	30	30	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 humity	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; FIPS 140-2, Level 2	RoHS; FIPS 140-2, Level 2	RoHS; FIPS 140-2, Level 2

NetScaler Platform	MPX/SDX 8015	MPX 8005	MPX 5650	MPX 5550
Platform attributes				
Processor	Intel E3-1275	Intel E3-1275	Intel E3-1225	Intel E3-1225
Memory	32 GB	32 GB	8 GB	8 GB
Ethernet ports (Published Ethernet interfaces compliant per IEEE802.3-2002/2005/2008/2012)	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+	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 options to MPX/ SDX 8015		Upgrade option to MPX 5650
Platform performance				
System throughput, Gbps (L7 throughput)	15	5	5	0.5
L7 HTTP requests/sec (MPX/SDX)	1,200,000	375,000	350,000	175,000
SSL transactions/sec (2K key certificates)	11,000	6,500	2,800	1,500
SSL throughput, Gbps	6	4	2	0.5
Compression throughput, Gbps	3.5	2.3	3	0.5
ICA proxy concurrent users	10,000	10,000	5,000	5,000
Number of instances included (for SDX models)[1]	2	Not applicable	Not applicable	Not applicable
Platform mechanical, environmental and regulatory				
Power supplies	1 (2nd is optional)	1 (2nd is optional)	1	1
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 supply	250W 853 BTU/Hr	250W 853 BTU/Hr	180W 614 BTU/Hr	180W 614 BTU/Hr
Typical power consumption	185W 631 BTU/Hr	185W 631 BTU/Hr	135W 461 BTU/Hr	135W 461 BTU/Hr
Weight, lbs	32	32	32	32
Height	1U	1U	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	28" / 71 cm	28" / 71 cm
Operating temperature	0-40C	0-40C	0-40C	0-40C
Allowed relative humity	10%-90%, non-condensing	10%-90%, 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	RoHS	RoHS

For information on VPX, please refer to the VPX datasheet

NetScaler Platform	MPX / SDX 21550	MPX / SDX 20550	MPX / SDX 19550	MPX / SDX 17550
Platform attributes				
Processor	Dual Intel X5680	Dual Intel X5680	Dual Intel X5680	Dual Xeon X5680
Memory	96 GB	96 GB	96 GB	96 GB
Ethernet ports*	8x 10GBASE-X SFP+	8x 10GBASE-X SFP+	8x 10GBASE-X SFP+	8x 10GBASE-X SFP+
Transceivers support	10GE SFP+: SR, LR	10GE SFP+: SR, LR	10GE SFP+: SR, LR	10GE SFP+: SR, LR;
Pay as you grow and BurstPack license upgrades		Upgrade option to MPX/SDX 21550	Upgrade option to MPX/SDX 20550 and MPX/SDX 21550	Upgrade option to MPX/SDX 19550, MPX/SDX 20550 and MPX/SDX 21550
Platform performance				
System throughput, Gbps (L7 throughput)	50	40	30	20
L7 HTTP requests/sec (MPX/SDX)	3,700,000	3,500,000	3,000,000	2,400,000
SSL transactions/sec (2K key certificates)	98,000	73,000 (MPX) 68,000 (SDX)	50,000	33,000
SSL throughput, Gbps	11	10	9	8
Compression throughput, Gbps	11 (MPX) / 10 (SDX)	9	8	7
ICA proxy concurrent users	30,000	30,000	30,000	30,000
Number of instances included (For SDX models)	5	5	5	5
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	850W 2900 BTU/Hr	850W 2900 BTU/Hr	1100W 3753 BTU/Hr	850W 2900 BTU/Hr
Typical power consumption	570W 1945 BTU/Hr	570W 1945 BTU/Hr	850W 2900 BTU/Hr	570W 1945 BTU/Hr
Weight, lbs	49	49	58	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 cm
Operating temperature	0-40C	0-40C	0-40C	0-40C
Allowed relative humity	5%-95%, non-condensing	5%-95%, non-condensing	5%-95%, noncondensing	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	RoHS	RoHS

Technical Aspects

Unified Gateway
- Provides consolidation of secure remote access infrastructure with One URL
- Provides SAML 2.0 federated identity to enable Single Sign-On across all applications whether in a datacenter or in a cloud
- One URL to access any application
- Stateless RDP proxy
- Support for Linux (Ubuntu 14.04 32bit / 64bit, Ubuntu 12.04 32bit / 64bit
- Support for Mac (OS X 10.9 (Mavericks), OS X 10.10 (Yosemite)
- Support for Windows 7, 8, and 8.1 (32bit / 64bit)
- Support for iOS 7.1 or later. Compatible with iPhone, iPad and iPod touch.
- Support for Android 4.1.x & 4.2.x (Jelly Bean), 4.4.x (KitKat), 5.x (Lollipop).

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, 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, Diameter AVP
- 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
- 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, Diameter AVP
- 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 Clustering[4]
- "Scale-Out" 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
- Compatible with Pay-As-You-Grow and Burst Pack performance upgrades
- Traffic distribution mechanisms include: Equal Cost Multiple Path (ECMP), Link-sets, and Cluster Link Aggregation Group (CLAG)
- Available on NetScaler MPX, SDX and VPX and with NetScaler EE and PE 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 queuing[2]
- Adaptive rate control for TCP connections and HTTP requests
- Prioritized transaction dispatch for critical application requests

Carrier-Grade Network Address Translation[2]
- Support for: Full-cone NAT, Deterministic NAT, Endpoint-Independent Mapping and Filtering, Hair-pinning
- Application Layer Gateways: FTP, TFTP, ICMP, SIP, RTSP, PPTP, GRE

Subscriber-aware traffic steering
- Policy control interface: Gx, RADIUS

Application acceleration
TCP optimization
- Multiplexing, Buffering, Connection Keep-alive, Windows Scaling, Selective Acknowledgement, Fast Ramp, TCP Westwood
- AppCompress
- Gzip-based compression for HTTP traffic AppCache[2]
- 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 AppFirewall with hybrid security model[2]
- 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
- XA/XD/XM integration
- Device certificate scanning
- Single sign-on using NTLM/Kerberos/SAML etc.
- SmartAccess: Adaptive application and action control enforced on XenApp and XenDesktop servers
- SmartControl: Adaptive application and action control enforced on NetScaler, thereby provising centralized policy management and security at the edge
- Integrated Citrix NetScaler Gateway SSL VPN
- Five SSL VPN concurrent user (CCU) licenses included in Standard and Enterprise Editions and 100 CCUs included in Platinum Edition
- End point analysis of user device
- SAML 2-factor and client certificate authentication; passwords for single sign on to backend services stored on NetScaler
- AAA traffic management
- SAML 2.0 and NTLMv1/2 support for configuring NetScaler with single sign-on (SSO)
- Active Directory, LDAP, RADIUS, TACACS +, OCSP

NetScaler CloudBridge Connector[3]
- Network connectivity protection via IPSec security
- Datacenter extension through GRE-based network bridging

Support for XenMobile MDM[5]
- 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

Network integration
- Static routes, monitored static routes, weighted static routes
- OSPF, RIP1/2, BGP[2]
- 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
- XenApp configuration wizards

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

Citrix Command Center[2]
- 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

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

EdgeSight for NetScaler[2]
- 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 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 redirection[2]
- Automatically direct requests with content not cached on NetScaler to cache farm
- N-tier multilayer load balancing support of cache servers

1 Additional NetScaler packs with 3 (8xxx) or 5 (all other models) instances each are available. For SDX 8015 maximum number of instances is 5.
2 Available in NetScaler Enterprise and Platinum editions only.
3 Included in Platinum edition only; not available with Standard or Enterprise editions.
4 Available as a license upgrade on all editions and for MPX, SDX (excluding 22000 series) and VPX appliances.
5 Enterprise edition with AppCache or Platinum edition recommended.