CITRIX°

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

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 AAA for traffic management NetScaler AppFirewall with XML security IP Reputation NetScaler Cloud Connector Front-end optimization Style sheets and JavaScript optimization Style sheets and JavaScript optimization Style sheets and JavaScript optimization TCP protocol optimization Multi-path TCP BIC and cubic TCP BIC and cubic TCP	Feature	Enterprise Edition
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 AppCanche AppCache Application security L4 DoS defenses L7 DoS defenses L7 DoS defenses L7 rewrite and responder XenMobile NetScaler connector AAA for traffic management NetScaler AppFirewall with XML security IP Reputation nFactor authentication NetScaler Cloud Connector Front-end optimization* Content layout Domain sharding Image optimization Style sheets and JavaScript optimization TCP protocol optimization Multi-path TCP	Application availability	
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 AppCache Application security L4 DoS defenses L7 DoS defenses L7 DoS defenses L7 rewrite and responder XenMobile NetScaler connector AAA for traffic management NetScaler AppFirewall with XML security IP Reputation nFactor authentication NetScaler Cloud Connector Front-end optimization** Content layout Domain sharding Image optimization Style sheets and JavaScript optimization TCP protocol optimization Multi-path TCP	L4 load balancing and L7 content switching	•
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 XenMobile NetScaler connector AAA for traffic management NetScaler AppFirewall with XML security IP Reputation NetScaler Cloud Connector Front-end optimization** Content layout Domain sharding Image optimization Style sheets and JavaScript optimization TCP protocol optimization Multi-path TCP	Microsoft SQL, MYSQL	•
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 XenMobile NetScaler connector AAA for traffic management NetScaler AppFirewall with XML security IP Reputation NetScaler Cloud Connector Front-end optimization** Content layout Domain sharding Image optimization Style sheets and JavaScript optimization TCP protocol optimization Multi-path TCP	AppExpert rate controls	•
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 DoS defenses L7 rewrite and responder XenMobile NetScaler connector AAA for traffic management NetScaler AppFirewall with XML security IP Reputation NetScaler Cloud Connector Front-end optimization** Content layout Domain sharding Image optimization Style sheets and JavaScript optimization TCP protocol optimization Multi-path TCP	IPv6 support	•
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 XenMobile NetScaler connector AAA for traffic management NetScaler AppFirewall with XML security IP Reputation nFactor authentication NetScaler Cloud Connector Front-end optimization** Content layout Domain sharding Image optimization Style sheets and JavaScript optimization Multi-path TCP •	Traffic domains	•
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 XenMobile NetScaler connector AAA for traffic management NetScaler AppFirewall with XML security IP Reputation nFactor authentication NetScaler Cloud Connector Front-end optimization** Content layout Domain sharding Image optimization Style sheets and JavaScript optimization TCP protocol optimization Multi-path TCP •	Subscriber-aware traffic steering	•
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 XenMobile NetScaler connector AAA for traffic management NetScaler AppFirewall with XML security IP Reputation NetScaler Cloud Connector Front-end optimization** Content layout Domain sharding Image optimization Style sheets and JavaScript optimization TCP protocol optimization Multi-path TCP •	Global server load balancing (GSLB)	•
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 XenMobile NetScaler connector AAA for traffic management NetScaler AppFirewall with XML security IP Reputation nFactor authentication NetScaler Cloud Connector Front-end optimization** Content layout Domain sharding Image optimization Style sheets and JavaScript optimization TCP protocol optimization Multi-path TCP NetScaler Cloud Contenting the content of the co	Carrier-Grade Network Address Translation (CGNAT)	•
TriScale Clustering Application acceleration Client and server TCP optimizations AppCompress AppCache Application security L4 DoS defenses L7 DoS defenses L7 rewrite and responder XenMobile NetScaler connector AAA for traffic management NetScaler AppFirewall with XML security IP Reputation nFactor authentication NetScaler Cloud Connector Front-end optimization** Content layout Domain sharding Image optimization Style sheets and JavaScript optimization TCP protocol optimization Multi-path TCP •	Dynamic routing protocols	•
Application acceleration Client and server TCP optimizations AppCompress AppCache Application security L4 DoS defenses L7 DoS defenses L7 rewrite and responder XenMobile NetScaler connector AAA for traffic management NetScaler AppFirewall with XML security IP Reputation nFactor authentication NetScaler Cloud Connector Front-end optimization** Content layout Domain sharding Image optimization Style sheets and JavaScript optimization TCP protocol optimization Multi-path TCP •	Surge protection and priority queuing	•
Client and server TCP optimizations AppCompress AppCache Application security L4 DoS defenses L7 DoS defenses L7 rewrite and responder XenMobile NetScaler connector AAA for traffic management NetScaler AppFirewall with XML security IP Reputation nFactor authentication NetScaler Cloud Connector Front-end optimization** Content layout Domain sharding Image optimization Style sheets and JavaScript optimization TCP protocol optimization Multi-path TCP •	TriScale Clustering	•
AppCompress AppCache AppCitation security L4 DoS defenses L7 DoS defenses L7 rewrite and responder XenMobile NetScaler connector AAA for traffic management NetScaler AppFirewall with XML security IP Reputation NetScaler Cloud Connector Front-end optimization** Content layout Domain sharding Image optimization Style sheets and JavaScript optimization TCP protocol optimization Multi-path TCP •	Application acceleration	
AppCache Application security L4 DoS defenses L7 DoS defenses L7 rewrite and responder XenMobile NetScaler connector AAA for traffic management NetScaler AppFirewall with XML security IP Reputation nFactor authentication NetScaler Cloud Connector Front-end optimization** Content layout Domain sharding Image optimization Style sheets and JavaScript optimization TCP protocol optimization Multi-path TCP •	Client and server TCP optimizations	•
Application security L4 DoS defenses L7 DoS defenses L7 rewrite and responder XenMobile NetScaler connector AAA for traffic management NetScaler AppFirewall with XML security IP Reputation nFactor authentication NetScaler Cloud Connector Front-end optimization** Content layout Domain sharding Image optimization Style sheets and JavaScript optimization TCP protocol optimization Multi-path TCP •	AppCompress	•
L4 DoS defenses L7 DoS defenses E7 rewrite and responder E8 XenMobile NetScaler connector AAA for traffic management NetScaler AppFirewall with XML security IP Reputation NetScaler Cloud Connector Front-end optimization** Content layout Domain sharding Image optimization Style sheets and JavaScript optimization Multi-path TCP Medical Experiment or an analysis of the standard or an analy	AppCache	•
L7 DoS defenses L7 rewrite and responder XenMobile NetScaler connector AAA for traffic management NetScaler AppFirewall with XML security IP Reputation nFactor authentication NetScaler Cloud Connector Front-end optimization** Content layout Domain sharding Image optimization Style sheets and JavaScript optimization TCP protocol optimization Multi-path TCP • •	Application security	
L7 rewrite and responder XenMobile NetScaler connector AAA for traffic management NetScaler AppFirewall with XML security IP Reputation nFactor authentication NetScaler Cloud Connector Front-end optimization** Content layout Domain sharding Image optimization Style sheets and JavaScript optimization TCP protocol optimization Multi-path TCP •	L4 DoS defenses	•
XenMobile NetScaler connector AAA for traffic management NetScaler AppFirewall with XML security IP Reputation nFactor authentication NetScaler Cloud Connector Front-end optimization** Content layout Domain sharding Image optimization Style sheets and JavaScript optimization TCP protocol optimization Multi-path TCP	L7 DoS defenses	•
AAA for traffic management NetScaler AppFirewall with XML security IP Reputation nFactor authentication NetScaler Cloud Connector Front-end optimization** Content layout Domain sharding Image optimization Style sheets and JavaScript optimization TCP protocol optimization Multi-path TCP	L7 rewrite and responder	•
NetScaler AppFirewall with XML security IP Reputation nFactor authentication NetScaler Cloud Connector Front-end optimization** Content layout Domain sharding Image optimization Style sheets and JavaScript optimization TCP protocol optimization Multi-path TCP	XenMobile NetScaler connector •	
IP Reputation nFactor authentication NetScaler Cloud Connector Front-end optimization** Content layout Domain sharding Image optimization Style sheets and JavaScript optimization TCP protocol optimization Multi-path TCP	AAA for traffic management	•
nFactor authentication NetScaler Cloud Connector Front-end optimization** Content layout Domain sharding Image optimization Style sheets and JavaScript optimization TCP protocol optimization Multi-path TCP	NetScaler AppFirewall with XML security	•
NetScaler Cloud Connector Front-end optimization** Content layout Domain sharding Image optimization Style sheets and JavaScript optimization TCP protocol optimization Multi-path TCP	IP Reputation	•
Front-end optimization** Content layout Domain sharding Image optimization Style sheets and JavaScript optimization TCP protocol optimization Multi-path TCP •	nFactor authentication	•
Content layout Domain sharding Image optimization Style sheets and JavaScript optimization TCP protocol optimization Multi-path TCP •	NetScaler Cloud Connector	
Domain sharding Image optimization Style sheets and JavaScript optimization TCP protocol optimization Multi-path TCP •	Front-end optimization**	
Image optimization Style sheets and JavaScript optimization TCP protocol optimization Multi-path TCP •	Content layout	•
Style sheets and JavaScript optimization TCP protocol optimization Multi-path TCP •	Domain sharding	•
TCP protocol optimization Multi-path TCP •	Image optimization	•
Multi-path TCP •	Style sheets and JavaScript optimization	•
	TCP protocol optimization	
BIC and cubic TCP •	Multi-path TCP	•
	BIC and cubic TCP	•

citrix.com

NetScaler Data Sheet

Feature	Enterprise Edition
Simple manageability	
NetScaler Insight Center-Web 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	•
Comtrade Management Pack for NetScaler	
Citrix Command Center	•
Unified Gateway	
Federated Identity	•
One URL/SSO using SAML 2.0	•
Centralized Policy Management (SmartControl)	
Stateless RDP proxy	•
Cluster for ICA proxy (Striped)	•
Monitoring of XenApp/XenDesktop traffic (Real time)	•
Monitoring of XenApp/XenDesktop traffic (Historical)	
Monitoring of Gateway traffic (Real time)	•
Monitoring of Gateway traffic (Historical)	
NetScaler Gateway	
Broad client support for plugins	•
Customizable web portal	•
SSL VPN remote access	•
ICA proxy to XenApp and XenDesktop	•
Contextual policies for XenApp/XenDesktop (SmartAccess)	•
End Point Analysis	•
Secure browser-only access (CVPN)	•
Always-On	•
Integration with StoreFront	•

[•] Standard • Option

citrix.com 2

^{*} Universal license is required on top of a NetScaler (Platinum, Enterprise, Standard) or a Gateway (AGEE) license. Standard and Enterprise Editions include (5) Universal licenses. Platinum Edition includes (100) Universal licenses.

 $[\]ensuremath{^{**}}$ An integrated cache license is required for several front-end optimization features

NetScaler Data Sheet

Platform attributes Memory 64 GB Ethernet ports 16x 1006 SFP+ Transceivers support 106E SFP+ SR, LR; 1G cu Pay as you grow Upgrade option to MPX/SDX 14030, 14040, 14060, 14080 and 14100 Platform performance System throughput, Gbps 20 SSL transactions/sec (2k)* 22,000 SSL throughput 21 Compression throughput 4.4 ICA Proxy/SSL VPN concurrent users 20,000 Number of instances included/ \$7.25 Maximum number of instances (on SDX models) \$7.25 Platform mechanical, environmental and regulatory Power supplies 2 Optional DC power supply Ye Max power consumption \$28W Typical power consumption \$28W Typical power consumption \$28W Weight, Ibs 60 Height 2U Width Ela 310-D, EC 60297, DIN 41494 SC48D rack width with mounting brackets Depth 28* / 71.2 cm Operating temperature 0-40C	NetScaler Platform	MPX/SDX 14020
Ethernet ports 16x 10GE SFP+ Transceivers support 10GE SFP+: SR, IR; 1G cu Pay as you grow Upgrade option to MPX/SDX 14030, 14040, 14060, 14080 and 14100 Platform performance System throughput, Gbps 20 HTTP requests/sec 1,400,000 SSL transactions/sec (2k)* 22,000 SSL transactions/sec (2k)* 22,000 SSL transactions/sec (2k)* 24,000 Compression throughput 4,4 ICA Proxy/SSL VPN concurrent users 20,000 Number of instances included/ 5,255 Number of instances included/ 5,255 Platform mechanical, environmental and regulatory 7,255 Power supplies 2 Input voltage 100-240VAC full range, 47-63 Hz Optional DC power supply Yes Max power consumption 528W Typical power consumption 300W 1024 BTU/Hr Weight, Ibs 60 Height 2U Width 28** Jan June 100** June 10	Platform attributes	
Transceivers support DGE SFP+: SR, LR; 1G cu	Memory	64 GB
Pay as you grow Upgrade option to MPX/SDX 14030, 14040, 14080 and 14100 Platform performance System throughput, Gbps 20 HTTP requests/sec 1,400,000 SSL transactions/sec (2k)* 22,000 SSL throughput 21 Compression throughput 4.4 ICA Proxy/SSL VPN concurrent users 20,000 Number of instances included/ 5/25 Maximum number of instances (on SDX models) 5/25 Platform mechanical, environmental and regulatory Power supplies 2 Input voltage 100-240VAC full range, 47-63 Hz Optional DC power supply Yes Max power consumption 528W Typical power consumption 300W 1024 BTU/Hr Weight, Ibs 60 Height 2U Wridth Elsh 310-D, IEC 60297, DIN 41494 SC4BD rack width with mounting brackets Depth 28* / 71.2 cm Operating temperature 0.40C Allowed relative humity 5%-95%, non-condensing Safety certifications CSA Electromagnetic emissions certifications ROMS	Ethernet ports	16x 10GE SFP+
Platform performance System throughput, 6tps 20 HTTP requests/sec 1,400,000 SSL transactions/sec (2k)* 22,000 SSL transactions/sec (2k)* 22,000 SSL transactions/sec (2k)* 20,000 SSL transactions/sec (2k)* 20,000 ICA Proxy/SSL VPN concurrent users 20,000 Number of instances included/ Maximum number of instances (on SDX models) Platform mechanical, environmental and regulatory Power supplies 2 Input voltage 100-240VAC full range, 47-63 Hz Optional DC power supply Yes Max power consumption 528W Typical power consumption 300W 1024 BTU/Hr Weight, Ibs 60 Height 2U Width Ela 310-D, IEC 60297, DIN 41494 SCABD rack width with mounting brackets Depth 28* / 71.2 cm Operating temperature 0-40C Allowed relative humity 5% 95%, non-condensing Safety certifications CSA Electromagnetic emissions certifications FCC (Part 15 Class A), DoC, CE, VCCI, CNS, AN/NES	Transceivers support	10GE SFP+: SR, LR; 1G cu
System throughput, Gbps 20 HTTP requests/sec 1,400,000 SSL transactions/sec (2k)* 22,000 SSL throughput 21 Compression throughput 4.4 ICA Proxy/SSL VPN concurrent users 20,000 Number of instances included/ Maximum number of instances (on SDX models) Platform mechanical, environmental and regulatory Power supplies 2 Input voltage 100-240VAC full range, 47-63 Hz Optional DC power supply Yes Max power consumption 528W Typical power consumption 300W 1024 BTU/Hr Weight, Ibs 60 Height 2U Width EliA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets Depth 28" / 71.2 cm Operating temperature 0-40C Allowed relative humity 5%-95%, non-condensing Safety certifications certifications 6HS Regulatory compliance	Pay as you grow	Upgrade option to MPX/SDX 14030, 14040, 14060, 14080 and 14100
HTTP request/sec 1,400,000 SSL transactions/sec (2k)* 22,000 SSL throughput 21 Compression throughput 4.4 ICA Proxy/SSL VPN concurrent users 20,000 Number of instances included/ 5/25 Maximum number of instances (on SDX models) Platform mechanical, environmental and regulatory Power supplies 2 Input voltage 100-240VAC full range, 47-63 Hz Optional DC power supply Yes Max power consumption 528W Typical power consumption 300W 1024 BTU/Hr Weight, lbs 60 Height 2U Width EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets Depth 0-40C Operating temperature 0-40C Allowed relative humity 5%-95%, non-condensing Safety certifications CFC (Part 15 Class A), Doc, CE, VCCI, CNS, AN/NES Regulatory compliance	Platform performance	
SSL transactions/sec (2k)* 22,000 SSL throughput 21 Compression throughput 4.4 ICA Proxy/SSL VPN concurrent users 20,000 Number of instances included/ Maximum number of instances (on SDX models) Platform mechanical, environmental and regulatory Power supplies 2 Input voltage 100-240VAC full range, 47-63 Hz Optional DC power supply Yes Max power consumption 528W Typical power consumption 300W 1024 BTU/Hr Weight, Ibs 60 Height 2U Width EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets Depth 0-40C Allowed relative humity 5%-95%, non-condensing Safety certifications FCC (Part 15 Class A), DoC, CE, VCCI, CNS, AN/NES Regulatory compliance Rose	System throughput, Gbps	20
SSL throughput 4.4 Compression throughput 4.4 ICA Proxy/SSL VPN concurrent users 20,000 Number of instances included/ Maximum number of instances (on SDX models) Platform mechanical, environmental and regulatory Power supplies 2 Input voltage 100-240VAC full range, 47-63 Hz Optional DC power supply Yes Max power consumption 528W Typical power consumption 300W 1024 BTU/Hr Weight, lbs 60 Height 2U Width ElA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets Depth 0.40C Allowed relative humity 5%-95%, non-condensing Safety certifications CSA Electromagnetic emissions certifications FCC (Part 15 Class A), DoC, CE, VCCI, CNS, AN/NES Regulatory compliance 805	HTTP requests/sec	1,400,000
Compression throughput 4.4 ICA Proxy/SSL VPN concurrent users 20,000 Number of instances included/ Maximum number of instances (on SDX models) 5/25 Platform mechanical, environmental and regulatory Power supplies Power supplies 2 Input voltage 100-240VAC full range, 47-63 Hz Optional DC power supply Yes Max power consumption 528W Typical power consumption 300W 1024 BTU/Hr Weight, lbs 60 Height 2U Wridth EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets Depth 28" / 71.2 cm Operating temperature 0-40C Allowed relative humity 5%-95%, non-condensing Safety certifications CSA Electromagnetic emissions certifications FCC (Part 15 Class A), DoC, CE, VCCI, CNS, AN/NES Regulatory compliance RoHS	SSL transactions/sec (2k)*	22,000
ICA Proxy/SSL VPN concurrent users 20,000 Number of instances included/ Maximum number of instances (on SDX models) Platform mechanical, environmental and regulatory Power supplies 2 Input voltage 100-240VAC full range, 47-63 Hz Optional DC power supply Yes Max power consumption 528W Typical power consumption 300W 1024 BTU/Hr Weight, lbs 60 Height 2U Width EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets Depth 28" / 71.2 cm Operating temperature 0-40C Allowed relative humity 5%-95%, non-condensing Safety certifications CSA Electromagnetic emissions certifications FCC (Part 15 Class A), DoC, CE, VCCI, CNS, AN/NES Regulatory compliance	SSL throughput	21
Number of instances included/ Maximum number of instances (on SDX models) Platform mechanical, environmental and regulatory Power supplies 2 Input voltage 100-240VAC full range, 47-63 Hz Optional DC power supply Yes Max power consumption 528W Typical power consumption 300W 1024 BTU/Hr Weight, lbs 60 Height 2U Width EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets Depth 28" / 71.2 cm Operating temperature 0-40C Allowed relative humity 5%-95%, non-condensing Safety certifications FCC (Part 15 Class A), Doc, CE, VCCI, CNS, AN/NES Regulatory compliance RoHS	Compression throughput	4.4
Maximum number of instances (on SDX models) Platform mechanical, environmental and regulatory Power supplies 2 Input voltage 100-240vAC full range, 47-63 Hz Optional DC power supply Yes Max power consumption 528W Typical power consumption 300W 1024 BTU/Hr Weight, lbs 60 Height 2U Width ElA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets Depth 28" / 71.2 cm Operating temperature 0-40C Allowed relative humity 5%-95%, non-condensing Safety certifications CSA Electromagnetic emissions certifications FCC (Part 15 Class A), DoC, CE, VCCI, CNS, AN/NES Regulatory compliance RoHS	ICA Proxy/SSL VPN concurrent users	20,000
Power supplies Input voltage 100-240VAC full range, 47-63 Hz Optional DC power supply Yes Max power consumption 528W Typical power consumption 300W 1024 BTU/Hr Weight, lbs 60 Height 2U Width EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets Depth 28" / 71.2 cm Operating temperature 0-40C Allowed relative humity S4ety certifications CSA Electromagnetic emissions certifications FCC (Part 15 Class A), DoC, CE, VCCI, CNS, AN/NES Regulatory compliance		5/25
Input voltage 100-240VAC full range, 47-63 Hz Optional DC power supply Yes Max power consumption 528W Typical power consumption 300W 1024 BTU/Hr Weight, lbs 60 Height 2U Width ElA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets Depth 28" / 71.2 cm Operating temperature O-40C Allowed relative humity 5%-95%, non-condensing Safety certifications ElC (Part 15 Class A), DoC, CE, VCCI, CNS, AN/NES Regulatory compliance RoHS	Platform mechanical, environmental and regulatory	
HzOptional DC power supplyYesMax power consumption528WTypical power consumption300W 1024 BTU/HrWeight, lbs60Height2UWidthEIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting bracketsDepth28" / 71.2 cmOperating temperature0-40CAllowed relative humity5%-95%, non-condensingSafety certificationsCSAElectromagnetic emissions certificationsFCC (Part 15 Class A), DoC, CE, VCCI, CNS, AN/NESRegulatory complianceROHS	Power supplies	2
Optional DC power supply Max power consumption 528W Typical power consumption 300W 1024 BTU/Hr Weight, lbs 60 Height 2U Width EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets Depth 28" / 71.2 cm Operating temperature O-40C Allowed relative humity 5%-95%, non-condensing Safety certifications Electromagnetic emissions certifications FCC (Part 15 Class A), DoC, CE, VCCI, CNS, AN/NES Regulatory compliance RoHS	Input voltage	
Max power consumption528WTypical power consumption300W 1024 BTU/HrWeight, Ibs60Height2UWidthEIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting bracketsDepth28" / 71.2 cmOperating temperature0-40CAllowed relative humity5%-95%, non-condensingSafety certificationsCSAElectromagnetic emissions certificationsFCC (Part 15 Class A), DoC, CE, VCCI, CNS, AN/NESRegulatory complianceRoHS	Optional DC power supply	
Typical power consumption 300W 1024 BTU/Hr Weight, lbs 60 Height 2U Width EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets Depth 28" / 71.2 cm Operating temperature 0-40C Allowed relative humity 5%-95%, non-condensing Safety certifications CSA Electromagnetic emissions certifications FCC (Part 15 Class A), DoC, CE, VCCI, CNS, AN/NES Regulatory compliance RoHS		528W
Weight, Ibs60Height2UWidthEIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting bracketsDepth28" / 71.2 cmOperating temperature0-40CAllowed relative humity5%-95%, non-condensingSafety certificationsCSAElectromagnetic emissions certificationsFCC (Part 15 Class A), DoC, CE, VCCI, CNS, AN/NESRegulatory complianceRoHS		300W 1024 BTU/Hr
Height Width EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets Depth 28" / 71.2 cm Operating temperature 0-40C Allowed relative humity 5%-95%, non-condensing Safety certifications CSA Electromagnetic emissions certifications FCC (Part 15 Class A), DoC, CE, VCCI, CNS, AN/NES Regulatory compliance ROHS		
Depth 28" / 71.2 cm Operating temperature 0-40C Allowed relative humity 5%-95%, non-condensing Safety certifications CSA Electromagnetic emissions certifications FCC (Part 15 Class A), DoC, CE, VCCI, CNS, AN/NES Regulatory compliance RoHS		2U
Operating temperature 0-40C Allowed relative humity 5%-95%, non-condensing Safety certifications CSA Electromagnetic emissions certifications FCC (Part 15 Class A), DoC, CE, VCCI, CNS, AN/NES Regulatory compliance ROHS	Width	EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets
Operating temperature 0-40C Allowed relative humity 5%-95%, non-condensing Safety certifications CSA Electromagnetic emissions certifications FCC (Part 15 Class A), DoC, CE, VCCI, CNS, AN/NES Regulatory compliance RoHS	Denth	28" / 71.2 cm
Allowed relative humity 5%-95%, non-condensing Safety certifications CSA Electromagnetic emissions certifications FCC (Part 15 Class A), DoC, CE, VCCI, CNS, AN/NES Regulatory compliance ROHS		
Safety certifications CSA Electromagnetic emissions certifications FCC (Part 15 Class A), DoC, CE, VCCI, CNS, AN/NES Regulatory compliance RoHS		
Electromagnetic emissions certifications FCC (Part 15 Class A), DoC, CE, VCCI, CNS, AN/NES Regulatory compliance RoHS	·	
	·	
	Regulatory compliance	RoHS

^{*} Performance varies depending on ciphers deployed, contact your Citrix sales representative for details

citrix.com 3

Technical aspects

Unified Gateway

- Provides consolidation of secure remote access infrastructure with One URL
- Provides SAML 2.0 federated identity to provide Single Sign-On across all applications whether in a datacenter or in a cloud
- One URL to access any application
- Always-On allows auto-reconnect of SSL VPN session when users are moving between networks
- 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 and EPA failures, single sign-on failures etc.
- nFactor authentication for all applications
- 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).

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 Unified Gateway, thereby providing centralized policy management and security at the edge Integrated NetScaler Unified 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 22.0 and nFactor; passwords for single sign on to backend services stored on NetScaler Unified Gateway
- AAA traffic management
- SAML 2.0 and NTLMv1/2 support for configuring NetScaler with single sign-on (SSO)
- Support for Active Directory, LDAP, RADIUS, TACACS +, OCSP, Diameter 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, 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
- CloudBridge 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

- "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

Admin Partitioning

- 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, 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 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

SSL Encryption

• Supports Thales nShield and SafeNet HSM integration

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)

Support for XenMobile MDM⁵

- Front end optimization scalable to over 100,000 concurrent users
- XenMobile NetScaler Connector (XNC) provides a device level authorization service
- $\bullet\,$ 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
- VRRPECMP
- 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

• 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

Third party management support

- SNMPv1, SNMPv2 and SNMPv3: NetScaler MIB and MIB-II support
- Microsoft System Center Operations Management (SCOM) support
- Comtrade support with Management Pack for Citrix NetScaler
- 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 a 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 redirection²

- 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.
- 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.

About Citrix

Citrix (NASDAQ:CTXS) is leading the transition to software-defining the workplace, uniting virtualization, mobility management, networking and SaaS solutions to enable new ways for businesses and people to work better. Citrix solutions power business mobility through secure, mobile workspaces that provide people with instant access to apps, desktops, data and communications on any device, over any network and cloud. With annual revenue in 2014 of \$3.14 billion, Citrix solutions are in use at more than 330,000 organizations and by over 100 million users globally. Learn more at www.citrix.com.

Copyright © 2016 Citrix Systems, Inc. All rights reserved. Citrix, NetScaler, AppCompress, AppCache, NetScaler Gateway, XenMobile, AppFirewall, CloudBridge, NetScaler Insight Center, HDX Insight, ICA, NetScaler MPX, NetScaler SDX, NetScaler VPX, AppFlow, EdgeSight, XenApp, XenDesktop, TriScale and TriScale Clustering are trademarks of Citrix Systems, Inc. and/or one of its subsidiaries, and may be registered in the U.S. and other countries. Other product and company names mentioned herein may be trademarks of their respective companies.

