

# Citrix Application Delivery Controller (ADC)

Deliver applications from any cloud with the experience your users expect.

With a software-first approach, Citrix ADC delivers an exceptional application experience. Simplify your application deployment across traditional and cloud architectures, protect your investment through flexible licensing, manage your applications wherever they live, and improve application performance and security with real-time visibility and analytics.

Feature	Premium Edition	Advanced Edition	Standard Edition	Citrix Gateway	Universal License <sup>1</sup>
<b>Application Availability</b>					
L4 load balancing & L7 content switching	•	•	•		
Microsoft SQL load balancing	•	•	•		
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 & Priority queuing	•	•			
TriScale clustering	•	•			
<b>Application Acceleration</b>					
Client & server TCP optimizations	•	•	•		
Cache redirection	•	•	•		
AppCompress	•	•	•		
AppCache	•	•			
<b>Application Security</b>					
L4 DoS defenses	•	•	•		
L7 DoS defenses	•	•	•		
L7 rewrite & responder	•	•	•		
Citrix Gateway Connector for Exchange ActiveSync	•	•			
AAA for traffic management	•	•			
Citrix WebApp Firewall	•	•			
IP Reputation	•	•			
nFactor authentication	•	•			
Content Inspection	•	•			
SSL Forward Proxy	•				
Cloud Connector for Citrix Networking	•				

Feature	Premium Edition	Advanced Edition	Standard Edition	Citrix Gateway	Universal License <sup>1</sup>
<b>Front-end Optimization<sup>2</sup></b>					
Content layout	•	•			
Domain sharding	•	•			
Image optimization	•	•			
Style sheets & JavaScript optimization	•	•			
<b>TCP Protocol Optimization</b>					
Multi-path TCP	•	•	•		
BIC & Cubic TCP	•	•	•		
<b>Simple Manageability</b>					
Citrix Application Delivery Management (ADM)	•	•	•		
AppExpert visual policy builder	•	•	•		
Action Analytics	•	•	•		
AppExpert service callouts, templates & visualizers	•	•	•		
Role-based & AAA administration	•	•	•		
Configuration wizards	•	•	•		
Native Citrix web interface	•	•			
Comtrade Management Pack for Citrix ADC	•				
<b>Citrix Gateway</b>					
Federated identity	•	•			
One URL/SSO using SAML 2.0	•	•			
Centralized policy management (SmartControl)	•				•
Stateless RDP proxy	•	•			•
Microsoft Intune support	•	•			
PCoIP support	•	•	•		
Cluster for ICA proxy (striped)	•	•			
Monitor Citrix Virtual Apps & Desktops traffic (real time)	•	•			
Monitor Citrix Virtual Apps & Desktops traffic (historical)	•				
Monitor Citrix Gateway traffic (real time)	•	•			
Monitor Citrix Gateway traffic (historical)	•				
Broad client support for plugins	•	•	•	•	•
Customizable web portal	•	•	•	•	•
SSL VPN remote access	•	•	•	•	•
ICA Proxy to Citrix Virtual Apps & Desktops	•	•	•	•	
Contextual policies for Citrix Virtual Apps & Desktops (SmartAccess)	•	•	•	•	•
Endpoint analysis	•	•	•	•	•
Secure browser-only access (CVPN)	•	•	•	•	•
Always-on	•	•	•	•	•
Integration with Citrix StoreFront	•	•	•		•

• Standard • Option

<sup>1</sup> For Citrix ADC versions after 11.1, the Standard edition includes (500) Universal licenses, Enterprise or Advanced editions include (1000) Universal licenses, and there are no Universal license requirements with Platinum or Premium editions. For versions previous to Citrix ADC 11.1, the Standard and Enterprise editions include (5) Universal licenses, and the Platinum edition includes (100) Universal licenses.

<sup>2</sup> An AppCache license is required for several front-end optimization features.

Platform	MPX/SDX 26200-100G	MPX/SDX 26160-100G	MPX/SDX 26100-100G
<b>Attributes</b>			
Memory	256 GB	256 GB	256 GB
Ethernet ports <sup>1</sup>	8x 100GE QSFP28	8x 100GE QSFP28	8x 100GE QSFP28
Transceivers support	50GE/100GE QSFP28: SR4; 40GE QSFP+: SR4; 25GE SFP28: SR (Adapter required); 10GE SFP+: SR, LR (Adapter required)		
RAID support	Yes	Yes	Yes
Pay-As-You-Grow & Burst Pack License upgrades	-	Upgrade option to MPX 26200-100G	Upgrade option to MPX 26160-100G, 26200-100G
<b>Attributes</b>			
System throughput, Gbps (L7 throughput)	200	160	100
L7 HTTP requests/sec	5,500,000	4,200,000	3,200,000
SSL transactions/sec (2K key certificates) <sup>2</sup>	125,000	110,000	66,000
ECDHE transactions/sec <sup>3</sup>	58,000	50,000	30,000
SSL throughput, Gbps	60	48	36
Compression throughput, Gbps	18	15	12
ICA Proxy/SSL VPN concurrent users	20,000	20,000	20,000
Number of instances included/ Maximum number of instances (on SDX models)	115/115	70/115	20/115
<b>Mechanical, environmental, and regulatory</b>			
Power supplies	2	2	2
Input voltage and frequency ranges	100-240VAC full range, 50-60 Hz	100-240VAC full range, 50-60 Hz	100-240VAC full range, 50-60 Hz
Optional DC power supply	Yes	Yes	Yes
Max power supply	822W	822W	822W
Typical, Max power consumption	300W, 1024 BTU/Hr	300W, 1024 BTU/Hr	300W, 1024 BTU/Hr
Weight, lbs	48	48	48
Height	2U	2U	2U
Width	EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets		
Depth	71.1 cm (28 in)	71.1 cm (28 in)	71.1 cm (28 in)
Operating temperature	0-45 °C (32-113 °F)	0-45 °C (32-113 °F)	0-45 °C (32-113 °F)
Allowed relative humidity	5-95%, non-condensing	5-95%, non-condensing	5-95%, non-condensing
Safety certifications	IEC 60950-1, 2nd Edition; CSA 60950-1, 2nd Edition; UL 60950-1, 2nd Edition; AS/NZS 60950-1		
Electromagnetic emission certifications & susceptibility standard	US (FCC (Part 15 Class A)), Europe (CE (EN 55032/55024)), Australia (RCM), Japan (VCCI), Korea (KCC), Taiwan (BSMI), China (CCC), India (BIS), Russia (CUTR), Russia (EAC), Saudi Arabia (CITC), Brazil (Anatel), South Africa (ICASA), Mexico (NOM), Egypt (NTRA), Israel (MoC)		
Regulatory compliance	RoHS, WEEE, REACH	RoHS, WEEE, REACH	RoHS, WEEE, REACH
Citrix compliance regulatory model	2U1P1D	2U1P1D	2U1P1D

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

<sup>2</sup> Performance varies depending on ciphers deployed. Contact your Citrix sales representative for details.

<sup>3</sup> Hybrid SSL optimization (TLS1-ECDHE-RSA-AES182-SHA 256).

Platform	MPX/SDX 26200-50S	MPX/SDX 26160-50S	MPX/SDX 26100-50S
<b>Attributes</b>			
Memory	256 GB	256 GB	256 GB
Ethernet ports <sup>1</sup>	4x 50GE QSFP28 16x 25GE SFP28	4x 50GE QSFP28 16x 25GE SFP28	4x 50GE QSFP28 16x 25GE SFP28
Transceivers support	50GE QSFP28 Port: 50GE/100GE QSFP28: SR4; 40GE QSFP+: SR4; 25GE SFP28: SR (Adapter required); 10GE SFP+: SR, LR (Adapter required) 25GE SFP28 Port: 25GE SFP28: SR; 10GE SFP+: SR, LR		
RAID support	Yes	Yes	Yes
Pay-As-You-Grow & Burst Pack License upgrades	-	Upgrade option to MPX 26200-50S	Upgrade option to MPX 26160-50S, 26200-50S
<b>Attributes</b>			
System throughput, Gbps (L7 throughput)	200	160	100
L7 HTTP requests/sec	6,500,000	5,500,000	4,500,000
SSL transactions/sec (2K key certificates) <sup>2</sup>	600,000	460,000	280,000
ECDHE transactions/sec <sup>3</sup>	250,000	190,000	115,000
SSL throughput, Gbps	120	100	80
Compression throughput, Gbps	22	16	13
ICA Proxy/SSL VPN concurrent users	20,000	20,000	20,000
Number of instances included/ Maximum number of instances (on SDX models)	115/115	70/115	20/115
<b>Mechanical, environmental, and regulatory</b>			
Power supplies	2	2	2
Input voltage and frequency ranges	100-240VAC full range, 50-60 Hz	100-240VAC full range, 50-60 Hz	100-240VAC full range, 50-60 Hz
Optional DC power supply	No	No	No
Max power supply	1200W	1200W	1200W
Typical, Max power consumption	628W, 764W	628W, 764W	628W, 764W
Weight, lbs	48	48	48
Height	2U	2U	2U
Width	EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets		
Depth	71.1 cm (28 in)	71.1 cm (28 in)	71.1 cm (28 in)
Operating temperature	0-45 °C (32-113 °F)	0-45 °C (32-113 °F)	0-45 °C (32-113 °F)
Allowed relative humidity	5-95%, non-condensing	5-95%, non-condensing	5-95%, non-condensing
Safety certifications	IEC 60950-1, 2nd Edition; CSA 60950-1, 2nd Edition; UL 60950-1, 2nd Edition; AS/NZS 60950-1		
Electromagnetic emission certifications & susceptibility standard	US (FCC (Part 15 Class A)), Europe (CE (EN 55032/55024)), Australia (RCM), Japan (VCCI), Korea (KCC), Taiwan (BSMI), China (CCC), India (BIS), Russia (CUTR), Russia (EAC), Saudi Arabia (CITC), Brazil (Anatel), South Africa (ICASA), Mexico (NOM), Egypt (NTRA), Israel (MoC)		
Regulatory compliance	RoHS, WEEE, REACH	RoHS, WEEE, REACH	RoHS, WEEE, REACH
Citrix compliance regulatory model	2U1P2A	2U1P2A	2U1P2A

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

<sup>2</sup> Performance varies depending on ciphers deployed. Contact your Citrix sales representative for details.

<sup>3</sup> Hybrid SSL optimization (TLS1-ECDHE-RSA-AES128-SHA 256).

Platform	MPX 26200T-100G	MPX 26160T-100G	MPX 26100T-100G
<b>Attributes</b>			
Memory	256 GB	256 GB	256 GB
Ethernet ports <sup>1</sup>	8x 100GE QSFP28	8x 100GE QSFP28	8x 100GE QSFP28
Transceivers support	50GE/100GE QSFP28: SR4; 40GE QSFP+: SR4; 25GE SFP28: SR (Adapter required); 10GE SFP+: SR, LR (Adapter required)		
RAID support	Yes	Yes	Yes
Pay-As-You-Grow & Burst Pack License upgrades	-	Upgrade option to MPX 26200T-100G	Upgrade option to MPX 26160T-100G, 26200T-100G
<b>Attributes</b>			
System throughput, Gbps (L7 throughput)	200	160	100
L7 HTTP requests/sec	5,500,000	4,200,000	3,200,000
SSL transactions/sec (2K key certificates) <sup>2</sup>	N/A	N/A	N/A
ECDHE transactions/sec <sup>3</sup>	N/A	N/A	N/A
SSL throughput, Gbps	N/A	N/A	N/A
Compression throughput, Gbps	18	15	12
ICA Proxy/SSL VPN concurrent users	20,000	20,000	20,000
Number of instances included/ Maximum number of instances (on SDX models)	N/A	N/A	N/A
<b>Mechanical, environmental, and regulatory</b>			
Power supplies	2	2	2
Input voltage and frequency ranges	100-240VAC full range, 50-60 Hz	100-240VAC full range, 50-60 Hz	100-240VAC full range, 50-60 Hz
Optional DC power supply	Yes	Yes	Yes
Max power supply	822W	822W	822W
Typical, Max power consumption	300W, 1024 BTU/Hr	300W, 1024 BTU/Hr	300W, 1024 BTU/Hr
Weight, lbs	48	48	48
Height	2U	2U	2U
Width	EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets		
Depth	71.1 cm (28 in)	71.1 cm (28 in)	71.1 cm (28 in)
Operating temperature	0-45 °C (32-113 °F)	0-45 °C (32-113 °F)	0-45 °C (32-113 °F)
Allowed relative humidity	5-95%, non-condensing	5-95%, non-condensing	5-95%, non-condensing
Safety certifications	IEC 60950-1, 2nd Edition; CSA 60950-1, 2nd Edition; UL 60950-1, 2nd Edition; AS/NZS 60950-1		
Electromagnetic emission certifications & susceptibility standard	US (FCC (Part 15 Class A)), Europe (CE (EN 55032/55024)), Australia (RCM), Japan (VCCI), Korea (KCC), Taiwan (BSMI), China (CCC), India (BIS), Russia (CUTR), Russia (EAC), Saudi Arabia (CITC), Brazil (Anatel), South Africa (ICASA), Mexico (NOM), Egypt (NTRA), Israel (MoC)		
Regulatory compliance	RoHS, WEEE, REACH	RoHS, WEEE, REACH	RoHS, WEEE, REACH
Citrix compliance regulatory model	2U1P1D	2U1P1D	2U1P1D

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

<sup>2</sup> Performance varies depending on ciphers deployed. Contact your Citrix sales representative for details.

<sup>3</sup> Hybrid SSL optimization (TLS1-ECDHE-RSA-AES182-SHA 256).

Platform	MPX/SDX 26200	MPX/SDX 26160	MPX/SDX 26100
<b>Attributes</b>			
Memory	256 GB	256 GB	256 GB
Ethernet ports <sup>1</sup>	8x 50GE QSFP28 16x 25G SFP28	8x 50GE QSFP28 16x 25G SFP28	8x 50GE QSFP28 16x 25G SFP28
Transceivers support	50GE QSFP28 Port: 50GE/100GE QSFP28: SR4; 40GE QSFP+: SR4; 25GE SFP28: SR (Adapter required); 10GE SFP+: SR, LR (Adapter required) 25GE SFP28 Port: 25GE SFP28: SR; 10GE SFP+: SR, LR		
RAID support	Yes	Yes	Yes
Pay-As-You-Grow & Burst Pack License upgrades	-	Upgrade option to MPX 26200	Upgrade option to MPX 26160, 26200

<b>Attributes</b>			
System throughput, Gbps (L7 throughput)	200	160	100
L7 HTTP requests/sec	5,400,000	4,300,000	3,800,000
SSL transactions/sec (2K key certificates) <sup>2</sup>	310,000	220,000	140,000
ECDHE transactions/sec <sup>3</sup>	130,000	90,000	60,000
SSL throughput, Gbps	80	64	51
Compression throughput, Gbps	22	17	13
ICA Proxy/SSL VPN concurrent users	20,000	20,000	20,000
Number of instances included/ Maximum number of instances (on SDX models)	115/115	70/115	20/115

#### Mechanical, environmental, and regulatory

Power supplies	2	2	2
Input voltage and frequency ranges	100-240VAC full range, 50-60 Hz	100-240VAC full range, 50-60 Hz	100-240VAC full range, 50-60 Hz
Optional DC power supply	Yes	Yes	Yes
Max power supply	1000W	1000W	1000W
Typical, Max power consumption	540W, 672W	540W, 672W	540W, 672W
Weight, lbs	48	48	48
Height	2U	2U	2U
Width	EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets		
Depth	71.2 cm (28 in)	71.2 cm (28 in)	71.2 cm (28 in)
Operating temperature	0-45 °C (32-113 °F)	0-45 °C (32-113 °F)	0-45 °C (32-113 °F)
Allowed relative humidity	5-95%, non-condensing	5-95%, non-condensing	5-95%, non-condensing
Safety certifications	IEC 60950-1, 2nd Edition; CSA 60950-1, 2nd Edition; UL 60950-1, 2nd Edition; AS/NZS 60950-1		
Electromagnetic emission certifications & susceptibility standard	US (FCC (Part 15 Class A)), Europe (CE (EN 55032/55024)), Australia (RCM), Japan (VCCI), Korea (KCC), Taiwan (BSMI), China (CCC), India (BIS), Russia (CUTR), Russia (EAC), Saudi Arabia (CITC), Brazil (Anatel), South Africa (ICASA), Mexico (NOM), Egypt (NTRA), Israel (MoC)		
Regulatory compliance	RoHS, WEEE, REACH	RoHS, WEEE, REACH	RoHS, WEEE, REACH
Citrix compliance regulatory model	2U1P1D	2U1P1D	2U1P1D

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

<sup>2</sup> Performance varies depending on ciphers deployed. Contact your Citrix sales representative for details.

<sup>3</sup> Hybrid SSL optimization (TLS1-ECDHE-RSA-AES182-SHA 256).

Platform	MPX 25160T	MPX 25100T
<b>Attributes</b>		
Memory	128 GB	128 GB
Ethernet ports <sup>1</sup>	32x 10GE SFP+	32x 10GE SFP+
Transceivers support	10GE SFP+; 1G SFP-CU	10GE SFP+; 1G SFP-CU
RAID support	No	No
Pay-As-You-Grow & Burst Pack License upgrades	-	Upgrade option to MPX 25160T
<b>Attributes</b>		
System throughput, Gbps (L7 throughput)	160	100
L7 HTTP requests/sec	4,600,000	3,200,000
SSL transactions/sec (2K key certificates) <sup>2</sup>	2,000	1,400
ECDHE transactions/sec <sup>3</sup>	N/A	N/A
SSL throughput, Gbps	21	15
Compression throughput, Gbps	14	10
ICA Proxy/SSL VPN concurrent users	35,000	35,000
Number of instances included/ Maximum number of instances (on SDX models)	N/A	N/A
<b>Mechanical, environmental, and regulatory</b>		
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	
Depth	72 cm (28.25 in)	72 cm (28.25 in)
Operating temperature	0-45 °C (32-113 °F)	0-45 °C (32-113 °F)
Allowed relative humidity	5-95%, non-condensing	5-95%, non-condensing
Safety certifications	CSA	
Electromagnetic emission certifications & susceptibility standard	FCC (Part 15 Class A), DoC, CE, VCCI, CNS, AN/NES	
Regulatory compliance	RoHS, WEEE	RoHS, WEEE
Citrix compliance regulatory model	2U1P1A	2U1P1A

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

<sup>2</sup> Performance varies depending on ciphers deployed. Contact your Citrix sales representative for details.

<sup>3</sup> Hybrid SSL optimization (TLS1-ECDHE-RSA-AES128-SHA 256).

Platform	MPX 25200TA	MPX 25160TA	MPX 25100TA
<b>Attributes</b>			
Memory	128 GB	128 GB	128 GB
Ethernet ports <sup>1</sup>	8x 40GE QSFP+	8x 40GE QSFP+	8x 40GE QSFP+
Transceivers support	40GE QSFP+: SR4	40GE QSFP+: SR4	40GE QSFP+: SR4
RAID support	No	No	No
Pay-As-You-Grow & Burst Pack License upgrades	-	Upgrade option to MPX 25200TA	Upgrade option to MPX 25160TA, 25200TA
<b>Attributes</b>			
System throughput, Gbps (L7 throughput)	200	160	100
L7 HTTP requests/sec	5,200,000	4,600,000	3,200,000
SSL transactions/sec (2K key certificates) <sup>2</sup>	2,000	2,000	1,400
ECDHE transactions/sec <sup>3</sup>	N/A	N/A	N/A
SSL throughput, Gbps	30	21	15
Compression throughput, Gbps	17	14	10
ICA Proxy/SSL VPN concurrent users	35,000	35,000	35,000
Number of instances included/ Maximum number of instances (on SDX models)	N/A	N/A	N/A
<b>Mechanical, environmental, and regulatory</b>			
Power supplies	2	2	2
Input voltage and frequency ranges	100-240VAC full range, 50-60 Hz	100-240VAC full range, 50-60 Hz	100-240VAC full range, 50-60 Hz
Optional DC power supply	Yes	Yes	Yes
Max power supply	1000W	1000W	1000W
Typical, Max power consumption	594W, 717W	594W, 717W	594W, 717W
Weight, lbs	60	60	60
Height	2U	2U	2U
Width	EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets		
Depth	72 cm (28.25 in)	72 cm (28.25 in)	72 cm (28.25 in)
Operating temperature	0-45 °C (32-113 °F)	0-45 °C (32-113 °F)	0-45 °C (32-113 °F)
Allowed relative humidity	5-95%, non-condensing	5-95%, non-condensing	5-95%, non-condensing
Safety certifications	CSA		
Electromagnetic emission certifications & susceptibility standard	FCC (Part 15 Class A), DoC, CE, VCCI, CNS, AN/NES		
Regulatory compliance	RoHS, WEEE	RoHS, WEEE	RoHS, WEEE
Citrix compliance regulatory model	2U1P1A	2U1P1A	2U1P1A

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

<sup>2</sup> Performance varies depending on ciphers deployed. Contact your Citrix sales representative for details.

<sup>3</sup> Hybrid SSL optimization (TLS1-ECDHE-RSA-AES182-SHA 256).



Platform	MPX/SDX 25200A	MPX/SDX 25160A	MPX/SDX 25100A
<b>Attributes</b>			
Memory	256 GB	256 GB	256 GB
Ethernet ports <sup>1</sup>	8x 40GE QSFP+	8x 40GE QSFP+	8x 40GE QSFP+
Transceivers support	40GE QSFP+: SR4	40GE QSFP+: SR4	40GE QSFP+: SR4
RAID support	Yes	Yes	Yes
Pay-As-You-Grow & Burst Pack License upgrades	-	Upgrade option to MPX/SDX 25200A	Upgrade option to MPX/SDX 25160A, 25200A
<b>Attributes</b>			
System throughput, Gbps (L7 throughput)	200	160	100
L7 HTTP requests/sec	5,200,000	4,000,000	3,000,000
SSL transactions/sec (2K key certificates) <sup>2</sup>	69,000	69,000	43,000
ECDHE transactions/sec <sup>3</sup>	56,000	47,000	29,000
SSL throughput, Gbps	46	42	34
Compression throughput, Gbps	17	14	10
ICA Proxy/SSL VPN concurrent users	20,000	20,000	20,000
Number of instances included/ Maximum number of instances (on SDX models)	115/115	70/115	20/115
<b>Mechanical, environmental, and regulatory</b>			
Power supplies	2	2	2
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
Optional DC power supply	Yes	Yes	Yes
Max power supply	822W	822W	822W
Typical, Max power consumption	300W, 1024 BTU/Hr	300W, 1024 BTU/Hr	300W, 1024 BTU/Hr
Weight, lbs	60	60	60
Height	2U	2U	2U
Width	EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets		
Depth	71.1 cm (28 in)	71.1 cm (28 in)	71.1 cm (28 in)
Operating temperature	0-45 °C (32-113 °F)	0-45 °C (32-113 °F)	0-45 °C (32-113 °F)
Allowed relative humidity	5-95%, non-condensing	5-95%, non-condensing	5-95%, non-condensing
Safety certifications	CSA		
Electromagnetic emission certifications & susceptibility standard	FCC (Part 15 Class A), DoC, CE, VCCI, CNS, AN/NES		
Regulatory compliance	RoHS, WEEE	RoHS, WEEE	RoHS, WEEE
Citrix compliance regulatory model	2U1P1A	2U1P1A	2U1P1A

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

<sup>2</sup> Performance varies depending on ciphers deployed. Contact your Citrix sales representative for details.

<sup>3</sup> Hybrid SSL optimization (TLS1-ECDHE-RSA-AES182-SHA 256).

Platform	MPX/SDX 25200-40G	MPX/SDX 25160-40G	MPX/SDX 25100-40G
<b>Attributes</b>			
Memory	256 GB	256 GB	256 GB
Ethernet ports <sup>1</sup>	4x 40GE QSFP+ 16x 10 GE SFP+	4x 40GE QSFP+ 16x 10GE SFP+	4x 40GE QSFP+ 16x 10GE SFP+
Transceivers support	40GE QSFP+: SR4 10GE SFP+: SR, LR	40GE QSFP+: SR4 10GE SFP+: SR, LR	40GE QSFP+: SR4 10GE SFP+: SR, LR
RAID support	Yes	Yes	Yes
Pay-As-You-Grow & Burst Pack License upgrades	-	Upgrade option to MPX/SDX 25200-40G	Upgrade option to MPX/SDX 25160-40G, 25200-40G
<b>Attributes</b>			
System throughput, Gbps (L7 throughput)	200	160	100
L7 HTTP requests/sec	5,000,000	4,000,000	3,000,000
SSL transactions/sec (2K key certificates) <sup>2</sup>	69,000	69,000	43,000
ECDHE transactions/sec <sup>3</sup>	56,000 (7,000)	47,000 (6,500)	29,000 (5,000)
SSL throughput, Gbps	46	42	34
Compression throughput, Gbps	17	14	10
ICA Proxy/SSL VPN concurrent users	20,000	20,000	20,000
Number of instances included/ Maximum number of instances (on SDX models)	115/115	70/115	20/115
<b>Mechanical, environmental, and regulatory</b>			
Power supplies	2	2	2
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
Optional DC power supply	Yes	Yes	Yes
Max power supply	822W	822W	822W
Typical, Max power consumption	300W, 1024 BTU/Hr	300W, 1024 BTU/Hr	300W, 1024 BTU/Hr
Weight, lbs	60	60	60
Height	2U	2U	2U
Width	EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets		
Depth	71.1 cm (28 in)	71.1 cm (28 in)	71.1 cm (28 in)
Operating temperature	0-45 °C (32-113 °F)	0-45 °C (32-113 °F)	0-45 °C (32-113 °F)
Allowed relative humidity	5-95%, non-condensing	5-95%, non-condensing	5-95%, non-condensing
Safety certifications	CSA		
Electromagnetic emission certifications & susceptibility standard	FCC (Part 15 Class A), DoC, CE, VCCI, CNS, AN/NES		
Regulatory compliance	RoHS, WEEE	RoHS, WEEE	RoHS, WEEE
Citrix compliance regulatory model	2U1P1A	2U1P1A	2U1P1A

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

<sup>2</sup> Performance varies depending on ciphers deployed. Contact your Citrix sales representative for details.

<sup>3</sup> Maximum ECDHE key transactions per second (TLS1-ECDHE-RSA-AES182-SHA 256), (Accelerated transactions only)

Platform	MPX/SDX 15120-50G	MPX/SDX 15100-50G	MPX/SDX 15080-50G
<b>Attributes</b>			
Memory	128 GB	128 GB	128 GB
Ethernet ports <sup>1</sup>	4x 50GE QSFP28 8x 10GE SFP+	4x 50GE QSFP28 8x 10GE SFP+	4x 50GE QSFP28 8x 10GE SFP+
Transceivers support	50GE QSFP28 Port: 50GE/100GE QSFP28: SR4; 40GE QSFP+: SR4; 25GE SFP28: SR (Adapter required); 10GE SFP+: SR, LR (Adapter required) 10GE SFP+ Port: 10GE SFP+: SR, LR		
RAID support	Yes	Yes	Yes
Pay-As-You-Grow & Burst Pack License upgrades	-	Upgrade option to MPX/SDX 15120-50G	Upgrade option to MPX/SDX 15120/100-50G
<b>Attributes</b>			
System throughput, Gbps (L7 throughput)	100	100	80
L7 HTTP requests/sec	3,900,000	4,000,000	3,900,000
SSL transactions/sec (2K key certificates) <sup>2</sup>	162,000	140,000	127,000
ECDHE transactions/sec <sup>3</sup>	65,000	60,000	55,000
SSL throughput, Gbps	74	70	60
Compression throughput, Gbps	10.8	10	9.3
ICA Proxy/SSL VPN concurrent users	20,000	20,000	20,000
Number of instances included/ Maximum number of instances (on SDX models)	55/55	50/55	45/55
<b>Mechanical, environmental, and regulatory</b>			
Power supplies	2	2	2
Input voltage and frequency ranges	100-240VAC full range, 50-60 Hz	100-240VAC full range, 50-60 Hz	100-240VAC full range, 50-60 Hz
Optional DC power supply	Yes	Yes	Yes
Max power supply	522W	522W	522W
Typical, Max power consumption	300W, 1024 BTU/Hr	300W, 1024 BTU/Hr	300W, 1024 BTU/Hr
Weight, lbs	39	39	39
Height	2U	2U	2U
Width	EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets		
Depth	71.1 cm (28 in)	71.1 cm (28 in)	71.1 cm (28 in)
Operating temperature	0-45 °C (32-113 °F)	0-45 °C (32-113 °F)	0-45 °C (32-113 °F)
Allowed relative humidity	5-95%, non-condensing	5-95%, non-condensing	5-95%, non-condensing
Safety certifications	IEC 60950-1, 2nd Edition; CSA 60950-1, 2nd Edition; UL 60950-1, 2nd Edition; AS/NZS 60950-1		
Electromagnetic emission certifications & susceptibility standard	US (FCC (Part 15 Class A)), Europe (CE (EN 55032/55024)), Australia (RCM), Japan (VCCI), Korea (KCC), Taiwan (BSMI), China (CCC), India (BIS), Russia (CUTR), Russia (EAC), Saudi Arabia (CITC), Brazil (Anatel), South Africa (ICASA), Mexico (NOM), Egypt (NTRA), Israel (MoC)		
Regulatory compliance	RoHS, WEEE, REACH	RoHS, WEEE, REACH	RoHS, WEEE, REACH
Citrix compliance regulatory model	2U1P1A	2U1P1A	2U1P1A

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

<sup>2</sup> Performance varies depending on ciphers deployed. Contact your Citrix sales representative for details.

<sup>3</sup> Hybrid SSL optimization (TLS1-ECDHE-RSA-AES128-SHA 256).

Platform	MPX/SDX 15060-50G	MPX/SDX 15040-50G
<b>Attributes</b>		
Memory	128 GB	128 GB
Ethernet ports <sup>1</sup>	4x 50GE QSFP28 8x 10GE SFP+	4x 50GE QSFP28 8x 10GE SFP+
Transceivers support	50GE QSFP28 Port: 50GE/100GE QSFP28: SR4; 40GE QSFP+: SR4; 25GE SFP28: SR (Adapter required); 10GE SFP+: SR, LR (Adapter required) 10GE SFP+ Port: 10GE SFP+: SR, LR	
RAID support	Yes	Yes
Pay-As-You-Grow & Burst Pack License upgrades	Upgrade option to MPX/SDX 15120/100/80-50G	Upgrade option to MPX/SDX 15120/100/80/60-50G
<b>Attributes</b>		
System throughput, Gbps (L7 throughput)	60	40
L7 HTTP requests/sec	3,200,000	3,000,000
SSL transactions/sec (2K key certificates) <sup>2</sup>	110,000	66,000
ECDHE transactions/sec <sup>3</sup>	45,000	30,000
SSL throughput, Gbps	50	40
Compression throughput, Gbps	8.5	7.8
ICA Proxy/SSL VPN concurrent users	20,000	20,000
Number of instances included/ Maximum number of instances (on SDX models)	40/55	30/55
<b>Mechanical, environmental, and regulatory</b>		
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	522W	522W
Typical, Max power consumption	300W, 1024 BTU/Hr	300W, 1024 BTU/Hr
Weight, lbs	39	39
Height	2U	2U
Width	EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets	
Depth	72 cm (28.25 in)	72 cm (28.25 in)
Operating temperature	0-45 °C (32-113 °F)	0-45 °C (32-113 °F)
Allowed relative humidity	5-95%, non-condensing	5-95%, non-condensing
Safety certifications	IEC 60950-1, 2nd Edition; CSA 60950-1, 2nd Edition; UL 60950-1, 2nd Edition; AS/NZS 60950-1	
Electromagnetic emission certifications & susceptibility standard	US (FCC (Part 15 Class A)), Europe (CE (EN 55032/55024)), Australia (RCM), Japan (VCCI), Korea (KCC), Taiwan (BSMI), China (CCC), India (BIS), Russia (CUTR), Russia (EAC), Saudi Arabia (CITC), Brazil (Anatel), South Africa (ICASA), Mexico (NOM), Egypt (NTRA), Israel (MoC)	
Regulatory compliance	RoHS, WEEE	RoHS, WEEE, REACH
Citrix compliance regulatory model	2U1P1A	2U1P1A

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

<sup>2</sup> Performance varies depending on ciphers deployed. Contact your Citrix sales representative for details.

<sup>3</sup> Hybrid SSL optimization (TLS1-ECDHE-RSA-AES182-SHA 256).

Platform	MPX/SDX 15030-50G	MPX/SDX 15020-50G
<b>Attributes</b>		
Memory	128 GB	128 GB
Ethernet ports <sup>1</sup>	4x 50GE QSFP28 8x 10GE SFP+	4x 50GE QSFP28 8x 10GE SFP+
Transceivers support	50GE QSFP28 Port: 50GE/100GE QSFP28: SR4; 40GE QSFP+: SR4; 25GE SFP28: SR (Adapter required); 10GE SFP+: SR, LR (Adapter required) 10GE SFP+ Port: 10GE SFP+: SR, LR	
RAID support	Yes	Yes
Pay-As-You-Grow & Burst Pack License upgrades	Upgrade option to MPX/SDX 15120/100/80/60/40-50G	Upgrade option to MPX/SDX 15120/100/80/60/40/30-50G
<b>Attributes</b>		
System throughput, Gbps (L7 throughput)	30	20
L7 HTTP requests/sec	2,800,000	2,500,000
SSL transactions/sec (2K key certificates) <sup>2</sup>	42,000	24,000
ECDHE transactions/sec <sup>3</sup>	20,000	11,000
SSL throughput, Gbps	30	21
Compression throughput, Gbps	7.2	6.4
ICA Proxy/SSL VPN concurrent users	20,000	20,000
Number of instances included/ Maximum number of instances (on SDX models)	20/55	5/55
<b>Mechanical, environmental, and regulatory</b>		
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	522W	522W
Typical, Max power consumption	300W, 1024 BTU/Hr	300W, 1024 BTU/Hr
Weight, lbs	39	39
Height	2U	2U
Width	EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets	
Depth	72 cm (28.25 in)	72 cm (28.25 in)
Operating temperature	0-45 °C (32-113 °F)	0-45 °C (32-113 °F)
Allowed relative humidity	5-95%, non-condensing	5-95%, non-condensing
Safety certifications	IEC 60950-1, 2nd Edition; CSA 60950-1, 2nd Edition; UL 60950-1, 2nd Edition; AS/NZS 60950-1	
Electromagnetic emission certifications & susceptibility standard	US (FCC (Part 15 Class A)), Europe (CE (EN 55032/55024)), Australia (RCM), Japan (VCCI), Korea (KCC), Taiwan (BSMI), China (CCC), India (BIS), Russia (CUTR), Russia (EAC), Saudi Arabia (CITC), Brazil (Anatel), South Africa (ICASA), Mexico (NOM), Egypt (NTRA), Israel (MoC)	
Regulatory compliance	RoHS, WEEE, REACH	RoHS, WEEE
Citrix compliance regulatory model	2U1P1A	2U1P1A

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

<sup>2</sup> Performance varies depending on ciphers deployed. Contact your Citrix sales representative for details.

<sup>3</sup> Hybrid SSL optimization (TLS1-ECDHE-RSA-AES182-SHA 256).

Platform	MPX/SDX 15120	MPX/SDX 15100	MPX/SDX 15080
<b>Attributes</b>			
Memory	128 GB	128 GB	128 GB
Ethernet ports <sup>1</sup>	16x 25GE SFP28	16x 25GE SFP28	16x 25GE SFP28
Transceivers support	25GE SFP28: SR; 10GE SFP+: SR, LR		
RAID support	Yes	Yes	Yes
Pay-As-You-Grow & Burst Pack License upgrades	-	Upgrade option to MPX/SDX 15120	Upgrade option to MPX/SDX 15120, 15100
<b>Attributes</b>			
System throughput, Gbps (L7 throughput)	120	100	80
L7 HTTP requests/sec	3,900,000	3,600,000	3,500,000
SSL transactions/sec (2K key certificates) <sup>2</sup>	162,000	140,000	127,000
ECDHE transactions/sec <sup>3</sup>	65,000	60,000	55,000
SSL throughput, Gbps	74	70	60
Compression throughput, Gbps	10.8	10.5	9.3
ICA Proxy/SSL VPN concurrent users	20,000	20,000	20,000
Number of instances included/ Maximum number of instances (on SDX models)	55/55	50/55	45/55
<b>Mechanical, environmental, and regulatory</b>			
Power supplies	2	2	2
Input voltage and frequency ranges	100-240VAC full range, 50-60 Hz	100-240VAC full range, 50-60 Hz	100-240VAC full range, 50-60 Hz
Optional DC power supply	Yes	Yes	Yes
Max power supply	1000W	1000W	1000W
Typical, Max power consumption	310W, 420W	310W, 420W	310W, 420W
Weight, lbs	60	60	60
Height	2U	2U	2U
Width	EIA 310-D for 19 inch racks		
Depth	71.1 cm (28 in)	71.1 cm (28 in)	71.1 cm (28 in)
Operating temperature	0-45 °C (32-113 °F)	0-45 °C (32-113 °F)	0-45 °C (32-113 °F)
Allowed relative humidity	5-95%, non-condensing	5-95%, non-condensing	5-95%, non-condensing
Safety certifications	IEC 60950-1, 2nd Edition; CSA 60950-1, 2nd Edition; UL 60950-1, 2nd Edition; AS/NZS 60950-1		
Electromagnetic emission certifications & susceptibility standard	US (FCC (Part 15 Class A)), Europe (CE (EN 55032/55024)), Australia (RCM), Japan (VCCI), Korea (KCC), Taiwan (BSMI), China (CCC), India (BIS), Russia (CUTR), Russia (EAC), Saudi Arabia (CITC), Brazil (Anatel), South Africa (ICASA), Mexico (NOM), Egypt (NTRA), Israel (MoC)		
Regulatory compliance	RoHS, WEEE, REACH	RoHS, WEEE, REACH	RoHS, WEEE, REACH
Citrix compliance regulatory model	2U1P1A	2U1P1A	2U1P1A

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

<sup>2</sup> Performance varies depending on ciphers deployed. Contact your Citrix sales representative for details.

<sup>3</sup> Hybrid SSL optimization (TLS1-ECDHE-RSA-AES128-SHA 256).

Platform	MPX/SDX 15060	MPX/SDX 15040
<b>Attributes</b>		
Memory	128 GB	128 GB
Ethernet ports <sup>1</sup>	16x 25GE SFP28	16x 25GE SFP28
Transceivers support	25GE SFP28: SR; 10GE SFP+: SR, LR	
RAID support	Yes	Yes
Pay-As-You-Grow & Burst Pack License upgrades	Upgrade option to MPX/SDX 15120, 15100, 15080	Upgrade option to MPX/SDX 15120, 15100, 15080, 15060
<b>Attributes</b>		
System throughput, Gbps (L7 throughput)	60	40
L7 HTTP requests/sec	3,200,000	3,000,000
SSL transactions/sec (2K key certificates) <sup>2</sup>	110,000	66,000
ECDHE transactions/sec <sup>3</sup>	45,000	30,000
SSL throughput, Gbps	50	40
Compression throughput, Gbps	8.5	7.8
ICA Proxy/SSL VPN concurrent users	20,000	20,000
Number of instances included/ Maximum number of instances (on SDX models)	40/55	30/55
<b>Mechanical, environmental, and regulatory</b>		
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	310W, 420W	310W, 420W
Weight, lbs	60	60
Height	2U	2U
Width	EIA 310-D for 19 inch racks	
Depth	71.1 cm (28 in)	71.1 cm (28 in)
Operating temperature	0-45 °C (32-113 °F)	0-45 °C (32-113 °F)
Allowed relative humidity	5-95%, non-condensing	5-95%, non-condensing
Safety certifications	IEC 60950-1, 2nd Edition; CSA 60950-1, 2nd Edition; UL 60950-1, 2nd Edition; AS/NZS 60950-1	
Electromagnetic emission certifications & susceptibility standard	US (FCC (Part 15 Class A)), Europe (CE (EN 55032/55024)), Australia (RCM), Japan (VCCI), Korea (KCC), Taiwan (BSMI), China (CCC), India (BIS), Russia (CUTR), Russia (EAC), Saudi Arabia (CITC), Brazil (Anatel), South Africa (ICASA), Mexico (NOM), Egypt (NTRA), Israel (MoC)	
Regulatory compliance	RoHS, WEEE, REACH	RoHS, WEEE, REACH
Citrix compliance regulatory model	2U1P1A	2U1P1A

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

<sup>2</sup> Performance varies depending on ciphers deployed. Contact your Citrix sales representative for details.

<sup>3</sup> Hybrid SSL optimization (TLS1-ECDHE-RSA-AES128-SHA 256).

Platform	MPX/SDX 15030	MPX/SDX 15020
<b>Attributes</b>		
Memory	128 GB	128 GB
Ethernet ports <sup>1</sup>	16x 25GE SFP28	16x 25GE SFP28
Transceivers support	25GE SFP28: SR; 10GE SFP+: SR, LR	
RAID support	Yes	Yes
Pay-As-You-Grow & Burst Pack License upgrades	Upgrade option to MPX/SDX 15120, 15100, 15080, 15060, 15040	Upgrade option to MPX/SDX 15120, 15100, 15080, 15060, 15040, 15030
<b>Attributes</b>		
System throughput, Gbps (L7 throughput)	30	20
L7 HTTP requests/sec	2,800,000	2,500,000
SSL transactions/sec (2K key certificates) <sup>2</sup>	42,000	24,000
ECDHE transactions/sec <sup>3</sup>	20,000	11,000
SSL throughput, Gbps	30	20
Compression throughput, Gbps	7.2	6.4
ICA Proxy/SSL VPN concurrent users	20,000	20,000
Number of instances included/ Maximum number of instances (on SDX models)	20/55	5/55
<b>Mechanical, environmental, and regulatory</b>		
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	310W, 420W	310W, 420W
Weight, lbs	60	60
Height	2U	2U
Width	EIA 310-D for 19 inch racks	
Depth	71.1 cm (28 in)	71.1 cm (28 in)
Operating temperature	0-45 °C (32-113 °F)	0-45 °C (32-113 °F)
Allowed relative humidity	5-95%, non-condensing	5-95%, non-condensing
Safety certifications	IEC 60950-1, 2nd Edition; CSA 60950-1, 2nd Edition; UL 60950-1, 2nd Edition; AS/NZS 60950-1	
Electromagnetic emission certifications & susceptibility standard	US (FCC (Part 15 Class A)), Europe (CE (EN 55032/55024)), Australia (RCM), Japan (VCCI), Korea (KCC), Taiwan (BSMI), China (CCC), India (BIS), Russia (CUTR), Russia (EAC), Saudi Arabia (CITC), Brazil (Anatel), South Africa (ICASA), Mexico (NOM), Egypt (NTRA), Israel (MoC)	
Regulatory compliance	RoHS, WEEE, REACH	RoHS, WEEE, REACH
Citrix compliance regulatory model	2U1P1A	2U1P1A

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

<sup>2</sup> Performance varies depending on ciphers deployed. Contact your Citrix sales representative for details.

<sup>3</sup> Hybrid SSL optimization (TLS1-ECDHE-RSA-AES128-SHA 256).



Platform	MPX/SDX 14100	MPX/SDX 14080	MPX/SDX 14060
<b>Attributes</b>			
Memory	64 GB	64 GB	64 GB
Ethernet ports <sup>1</sup>	16x 10GE SFP+	16x 10GE SFP+	16x 10GE SFP+
Transceivers support	10GE SFP+: SR, LR; 1GE SFP: CU		
RAID support	Yes	Yes	Yes
Pay-As-You-Grow & Burst Pack License upgrades	-	Upgrade option to MPX/SDX 14100	Upgrade option to MPX/SDX 14080, 14100
<b>Attributes</b>			
System throughput, Gbps (L7 throughput)	100	80	60
L7 HTTP requests/sec	3,000,000	2,800,000	2,400,000
SSL transactions/sec (2K key certificates) <sup>2</sup>	69,000	69,000	69,000
ECDHE transactions/sec <sup>3</sup>	33,500 (8,200)	32,000 (8,200)	31,500 (8,200)
SSL throughput, Gbps	46	43	40
Compression throughput, Gbps	10	8.5	8
ICA Proxy/SSL VPN concurrent users	20,000	20,000	20,000
Number of instances included/ Maximum number of instances (on SDX models)	25/25	25/25	25/25
<b>Mechanical, environmental, and regulatory</b>			
Power supplies	2	2	2
Input voltage and frequency ranges	100-240VAC full range, 50-60 Hz	100-240VAC full range, 50-60 Hz	100-240VAC full range, 47-63 Hz
Optional DC power supply	Yes	Yes	Yes
Max power supply	528W	528W	528W
Typical, Max power consumption	300W, 1024 BTU/Hr	300W, 1024 BTU/Hr	300W, 1024 BTU/Hr
Weight, lbs	60	60	60
Height	2U	2U	2U
Width	EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets		
Depth	71.1 cm (28 in)	71.1 cm (28 in)	71.1 cm (28 in)
Operating temperature	0-45 °C (32-113 °F)	0-45 °C (32-113 °F)	0-45 °C (32-113 °F)
Allowed relative humidity	5-95%, non-condensing	5-95%, non-condensing	5-95%, non-condensing
Safety certifications	CSA		
Electromagnetic emission certifications & susceptibility standard	FCC (Part 15 Class A), DoC, CE, VCCI, CNS, AN/NES		
Regulatory compliance	RoHS, WEEE, NEBS Level 3 Available	RoHS, WEEE, NEBS Level 3 Available	RoHS, WEEE
Citrix compliance regulatory model	2U1P1B	2U1P1B	2U1P1B

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

<sup>2</sup> Performance varies depending on ciphers deployed. Contact your Citrix sales representative for details.

<sup>3</sup> Maximum ECDHE key transactions per second (TLS1-ECDHE-RSA-AES182-SHA 256), (Accelerated transactions only)

Platform	MPX/SDX 14040	MPX/SDX 14030	MPX/SDX 14020
<b>Attributes</b>			
Memory	64 GB	64 GB	64 GB
Ethernet ports <sup>1</sup>	16x 10GE SFP+	16x 10GE SFP+	16x 10GE SFP+
Transceivers support	10GE SFP+: SR, LR; 1GE SFP: CU		
RAID support	Yes	Yes	Yes
Pay-As-You-Grow & Burst Pack License upgrades	Upgrade option to MPX/SDX 14060, 14080, 14100	Upgrade option to MPX/SDX 14040, 14060, 14080, 14100	Upgrade option to MPX/SDX 14030, 14040, 14060, 14080, 14100
<b>Attributes</b>			
System throughput, Gbps (L7 throughput)	40	30	20
L7 HTTP requests/sec	2,400,000	2,000,000	1,700,000
SSL transactions/sec (2K key certificates) <sup>2</sup>	42,000	30,000	22,000
ECDHE transactions/sec <sup>3</sup>	25,500 (3,400)	23,000 (3,100)	20,000 (3,000)
SSL throughput, Gbps	34	23	20
Compression throughput, Gbps	6	5	4.4
ICA Proxy/SSL VPN concurrent users	20,000	20,000	20,000
Number of instances included/ Maximum number of instances (on SDX models)	20/25	10/25	5/25
<b>Mechanical, environmental, and regulatory</b>			
Power supplies	2	2	2
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
Optional DC power supply	Yes	Yes	Yes
Max power supply	528W	528W	528W
Typical, Max power consumption	300W, 1024 BTU/Hr	300W, 1024 BTU/Hr	300W, 1024 BTU/Hr
Weight, lbs	60	60	60
Height	2U	2U	2U
Width	EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets		
Depth	71.1 cm (28 in)	71.1 cm (28 in)	71.1 cm (28 in)
Operating temperature	0-45 °C (32-113 °F)	0-45 °C (32-113 °F)	0-45 °C (32-113 °F)
Allowed relative humidity	5-95%, non-condensing	5-95%, non-condensing	5-95%, non-condensing
Safety certifications	CSA		
Electromagnetic emission certifications & susceptibility standard	FCC (Part 15 Class A), DoC, CE, VCCI, CNS, AN/NES		
Regulatory compliance	RoHS, WEEE	RoHS, WEEE	RoHS, WEEE
Citrix compliance regulatory model	2U1P1B	2U1P1B	2U1P1B

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

<sup>2</sup> Performance varies depending on ciphers deployed. Contact your Citrix sales representative for details.

<sup>3</sup> Maximum ECDHE key transactions per second (TLS1-ECDHE-RSA-AES182-SHA 256), (Accelerated transactions only)

Platform	MPX/SDX 14100-40G	MPX/SDX 14080-40G	MPX/SDX 14060-40G
<b>Attributes</b>			
Memory	64 GB	64 GB	64 GB
Ethernet ports <sup>1</sup>	4x 40GE QSFP+ 16x 10GE SFP+	4x 40GE QSFP+ 16x 10GE SFP+	4x 40GE QSFP+ 16x 10GE SFP+
Transceivers support	40GE QSFP+: SR4; 10GE SFP+: SR, LR		
RAID support	Yes	Yes	Yes
Pay-As-You-Grow & Burst Pack License upgrades	-	Upgrade option to MPX/SDX 14100-40G	Upgrade option to MPX/SDX 14100/80-40G
<b>Attributes</b>			
System throughput, Gbps (L7 throughput)	100	80	60
L7 HTTP requests/sec	2,800,000	2,800,000	2,400,000
SSL transactions/sec (2K key certificates) <sup>2</sup>	69,000	69,000	69,000
ECDHE transactions/sec <sup>3</sup>	33,500 (8,200)	32,000 (8,200)	31,500 (8,200)
SSL throughput, Gbps	45	43	40
Compression throughput, Gbps	8.6	8.6	8
ICA Proxy/SSL VPN concurrent users	20,000	20,000	20,000
Number of instances included/ Maximum number of instances (on SDX models)	25/25	25/25	25/25
<b>Mechanical, environmental, and regulatory</b>			
Power supplies	2	2	2
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
Optional DC power supply	Yes	Yes	Yes
Max power supply	528W	528W	528W
Typical, Max power consumption	300W, 1024 BTU/Hr	300W, 1024 BTU/Hr	300W, 1024 BTU/Hr
Weight, lbs	60	60	60
Height	2U	2U	2U
Width	EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets		
Depth	71.1 cm (28 in)	71.1 cm (28 in)	71.1 cm (28 in)
Operating temperature	0-45 °C (32-113 °F)	0-45 °C (32-113 °F)	0-45 °C (32-113 °F)
Allowed relative humidity	5-95%, non-condensing	5-95%, non-condensing	5-95%, non-condensing
Safety certifications	CSA		
Electromagnetic emission certifications & susceptibility standard	FCC (Part 15 Class A), DoC, CE, VCCI, CNS, AN/NES		
Regulatory compliance	RoHS, WEEE	RoHS, WEEE	RoHS, WEEE
Citrix compliance regulatory model	2U1P1B	2U1P1B	2U1P1B

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

<sup>2</sup> Performance varies depending on ciphers deployed. Contact your Citrix sales representative for details.

<sup>3</sup> Maximum ECDHE key transactions per second (TLS1-ECDHE-RSA-AES182-SHA 256), (Accelerated transactions only)

Platform	MPX/SDX 14040-40G	MPX/SDX 14020-40G
<b>Attributes</b>		
Memory	64 GB	64 GB
Ethernet ports <sup>1</sup>	4x 40GE QSFP+ 16x 10GE SFP+	4x 40GE QSFP+ 16x 10GE SFP+
Transceivers support	40GE QSFP+: SR4; 10GE SFP+: SR, LR	
RAID support	Yes	Yes
Pay-As-You-Grow & Burst Pack License upgrades	Upgrade option to MPX/SDX 14100/80/60-40G	Upgrade option to MPX/SDX 14100/80/60/40-40G
<b>Attributes</b>		
System throughput, Gbps (L7 throughput)	40	20
L7 HTTP requests/sec	2,400,000	1,400,000
SSL transactions/sec (2K key certificates) <sup>2</sup>	42,000	22,000
ECDHE transactions/sec <sup>3</sup>	25,500 (3,400)	20,000 (3,000)
SSL throughput, Gbps	34	21
Compression throughput, Gbps	6	4.4
ICA Proxy/SSL VPN concurrent users	20,000	20,000
Number of instances included/ Maximum number of instances (on SDX models)	20/25	5/25
<b>Mechanical, environmental, and regulatory</b>		
Power supplies	2	2
Input voltage and frequency ranges	100-240VAC full range, 47-63 Hz	100-240VAC full range, 47-63 Hz
Optional DC power supply	Yes	Yes
Max power supply	528W	528W
Typical, Max power consumption	300W, 1024 BTU/Hr	300W, 1024 BTU/Hr
Weight, lbs	60	60
Height	2U	2U
Width	EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets	
Depth	71.1 cm (28 in)	71.1 cm (28 in)
Operating temperature	0-45 °C (32-113 °F)	0-45 °C (32-113 °F)
Allowed relative humidity	5-95%, non-condensing	5-95%, non-condensing
Safety certifications	CSA	
Electromagnetic emission certifications & susceptibility standard	FCC (Part 15 Class A), DoC, CE, VCCI, CNS, AN/NES	
Regulatory compliance	RoHS, WEEE	RoHS, WEEE
Citrix compliance regulatory model	2U1P1B	2U1P1B

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

<sup>2</sup> Performance varies depending on ciphers deployed. Contact your Citrix sales representative for details.

<sup>3</sup> Maximum ECDHE key transactions per second (TLS1-ECDHE-RSA-AES182-SHA 256), (Accelerated transactions only)

Platform	MPX/SDX 14100-40S	MPX/SDX 14080-40S
<b>Attributes</b>		
Memory	64 GB	64 GB
Ethernet ports <sup>1</sup>	4x 40GE QSFP+ 8x 10GE SFP+	4x 40GE QSFP+ 8x 10GE SFP+
Transceivers support	40GE QSFP+: SR4; 10GE SFP+: SR, LR	
RAID support	Yes	Yes
Pay-As-You-Grow & Burst Pack License upgrades	-	Upgrade option to MPX/SDX 14100-40S
<b>Attributes</b>		
System throughput, Gbps (L7 throughput)	100	80
L7 HTTP requests/sec	2,900,000	2,800,000
SSL transactions/sec (2K key certificates) <sup>2</sup>	275,000	207,000
ECDHE transactions/sec <sup>3</sup>	51,000 (32,500)	45,000 (24,000)
SSL throughput, Gbps	59	54
Compression throughput, Gbps	10.5	8.6
ICA Proxy/SSL VPN concurrent users	20,000	20,000
Number of instances included/ Maximum number of instances (on SDX models)	25/25	25/25
<b>Mechanical, environmental, and regulatory</b>		
Power supplies	2	2
Input voltage and frequency ranges	100-240VAC full range, 47-63 Hz	100-240VAC full range, 47-63 Hz
Optional DC power supply	Yes	Yes
Max power supply	528W	528W
Typical, Max power consumption	300W, 1024 BTU/Hr	300W, 1024 BTU/Hr
Weight, lbs	60	60
Height	2U	2U
Width	EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets	
Depth	71.1 cm (28 in)	71.1 cm (28 in)
Operating temperature	0-45 °C (32-113 °F)	0-45 °C (32-113 °F)
Allowed relative humidity	5-95%, non-condensing	5-95%, non-condensing
Safety certifications	CSA	
Electromagnetic emission certifications & susceptibility standard	FCC (Part 15 Class A), DoC, CE, VCCI, CNS, AN/NES	
Regulatory compliance	RoHS, WEEE	RoHS, WEEE
Citrix compliance regulatory model	2U1P1B	2U1P1B

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

<sup>2</sup> Performance varies depending on ciphers deployed. Contact your Citrix sales representative for details.

<sup>3</sup> Maximum ECDHE key transactions per second (TLS1-ECDHE-RSA-AES182-SHA 256), (Accelerated transactions only)

Platform	MPX/SDX 14060-40S	MPX/SDX 14040-40S
<b>Attributes</b>		
Memory	64 GB	64 GB
Ethernet ports <sup>1</sup>	4x 40GE QSFP+ 8x 10GE SFP+	4x 40GE QSFP+ 8x 10GE SFP+
Transceivers support	40GE QSFP+: SR4; 10GE SFP+: SR, LR	
RAID support	Yes	Yes
Pay-As-You-Grow & Burst Pack License upgrades	Upgrade option to MPX/SDX 14100/80-40S	Upgrade option to MPX/SDX 14100/80/60-40S
<b>Attributes</b>		
System throughput, Gbps (L7 throughput)	60	40
L7 HTTP requests/sec	2,700,000	2,400,000
SSL transactions/sec (2K key certificates) <sup>2</sup>	172,000	103,000
ECDHE transactions/sec <sup>3</sup>	39,500 (20,000)	26,500 (12,000)
SSL throughput, Gbps	49	43
Compression throughput, Gbps	8	7.5
ICA Proxy/SSL VPN concurrent users	20,000	20,000
Number of instances included/ Maximum number of instances (on SDX models)	20/25	20/25
<b>Mechanical, environmental, and regulatory</b>		
Power supplies	2	2
Input voltage and frequency ranges	100-240VAC full range, 47-63 Hz	100-240VAC full range, 47-63 Hz
Optional DC power supply	Yes	Yes
Max power supply	528W	528W
Typical, Max power consumption	300W, 1024 BTU/Hr	300W, 1024 BTU/Hr
Weight, lbs	60	60
Height	2U	2U
Width	EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets	
Depth	71.1 cm (28 in)	71.1 cm (28 in)
Operating temperature	0-45 °C (32-113 °F)	0-45 °C (32-113 °F)
Allowed relative humidity	5-95%, non-condensing	5-95%, non-condensing
Safety certifications	CSA	
Electromagnetic emission certifications & susceptibility standard	FCC (Part 15 Class A), DoC, CE, VCCI, CNS, AN/NES	
Regulatory compliance	RoHS, WEEE	RoHS, WEEE
Citrix compliance regulatory model	2U1P1B	2U1P1B

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

<sup>2</sup> Performance varies depending on ciphers deployed. Contact your Citrix sales representative for details.

<sup>3</sup> Maximum ECDHE key transactions per second (TLS1-ECDHE-RSA-AES182-SHA 256), (Accelerated transactions only)

Platform	MPX/SDX 14080 FIPS	MPX/SDX 14060 FIPS	MPX/SDX 14030 FIPS
<b>Attributes</b>			
Memory	64 GB	64 GB	64 GB
Ethernet ports <sup>1</sup>	16x 10GE SFP+	16x 10GE SFP+	16x 10GE SFP+
Transceivers support	10GE SFP+: SR, LR; 1GE SFP: CU		
RAID support	Yes	Yes	Yes
Pay-As-You-Grow & Burst Pack License upgrades	-	Upgrade option to MPX/SDX 14080 FIPS	Upgrade option to MPX/SDX 14060 FIPS, 14080 FIPS
<b>Attributes</b>			
System throughput, Gbps (L7 throughput)	80	60	30
L7 HTTP requests/sec	2,000,000	1,800,000	1,400,000
SSL transactions/sec (2K key certificates) <sup>2</sup>	33,000	25,000	18,000
ECDHE transactions/sec <sup>3</sup>	N/A	N/A	N/A
SSL throughput, Gbps	30	23	18
Compression throughput, Gbps	6.8	6	5
ICA Proxy/SSL VPN concurrent users	20,000	20,000	20,000
Number of instances included/ Maximum number of instances (on SDX models)	25/25	25/25	10/25
<b>Mechanical, environmental, and regulatory</b>			
Power supplies	2	2	2
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
Optional DC power supply	Yes	Yes	Yes
Max power supply	650W	528W	528W
Typical, Max power consumption	300W, 1706 BTU/Hr	300W, 1024 BTU/Hr	300W, 1024 BTU/Hr
Weight, lbs	45	60	60
Height	2U	2U	2U
Width	EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets		
Depth	71.1 cm (28 in)	71.1 cm (28 in)	71.1 cm (28 in)
Operating temperature	0-45 °C (32-113 °F)	0-45 °C (32-113 °F)	0-45 °C (32-113 °F)
Allowed relative humidity	5-95%, non-condensing	5-95%, non-condensing	5-95%, non-condensing
Safety certifications	CSA		
Electromagnetic emission certifications & susceptibility standard	FCC (Part 15 Class A), DoC, CE, VCCI, CNS, AN/NES		
Regulatory compliance	RoHS, WEEE, FIPS 140-2, Level 3	RoHS, WEEE, FIPS 140-2, Level 3	RoHS, WEEE, FIPS 140-2, Level 3
Citrix compliance regulatory model	2U1P1B	2U1P1B	2U1P1B

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

<sup>2</sup> Performance varies depending on ciphers deployed. Contact your Citrix sales representative for details.

<sup>3</sup> Hybrid SSL optimization (TLS1-ECDHE-RSA-AES128-SHA 256).

Platform	MPX/SDX 8930	MPX/SDX 8920
<b>Attributes</b>		
Memory	32 GB	32 GB
Ethernet ports <sup>1</sup>	4x 10GE SFP+ 6x 10/100/1000 CU	4x 10GE SFP+ 6x 10/100/1000 CU
Transceivers support	10GE SFP+: SR, LR	10GE SFP+: SR, LR
RAID support	No	No
Pay-As-You-Grow & Burst Pack License upgrades	-	Upgrade option to MPX/SDX 8930
<b>Attributes</b>		
System throughput, Gbps (L7 throughput)	33	20
L7 HTTP requests/sec	2,300,000	1,700,000
SSL transactions/sec (2K key certificates) <sup>2</sup>	40,000	22,000
ECDHE transactions/sec <sup>3</sup>	16,000	10,000
SSL throughput, Gbps	25	20
Compression throughput, Gbps	4.8	4
ICA Proxy/SSL VPN concurrent users	10,000	10,000
Number of instances included/ Maximum number of instances (on SDX models)	2/7	2/7
<b>Mechanical, environmental, and regulatory</b>		
Power supplies	1 (2nd optional)	1 (2nd optional)
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	275W	275W
Typical, Max power consumption	225W	225W
Weight, lbs	25	25
Height	1U	1U
Width	EIA 310-D for 19 inch racks	EIA 310-D for 19 inch racks
Depth	61 cm (24 in)	61 cm (24 in)
Operating temperature	0-45 °C (32-113 °F)	0-45 °C (32-113 °F)
Allowed relative humidity	5-95%, non-condensing	5-95%, non-condensing
Safety certifications	CSA	CSA
Electromagnetic emission certifications & susceptibility standard	FCC, CE, VCCI, RCM, CCC, KCC, BIS, NOM, CITC, ICASA, EAC	
Regulatory compliance	RoHS, WEEE, REACH	RoHS, WEEE, REACH
Citrix compliance regulatory model	1U1P1A	1U1P1A

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

<sup>2</sup> Performance varies depending on ciphers deployed. Contact your Citrix sales representative for details.

<sup>3</sup> Hybrid SSL optimization (TLS1-ECDHE-RSA-AES182-SHA 256).



Platform	MPX 8910	MPX 8905
<b>Attributes</b>		
Memory	32 GB	32 GB
Ethernet ports <sup>1</sup>	4x 10GE SFP+ 6x 10/100/1000 CU	4x 10GE SFP+ 6x 10/100/1000 CU
Transceivers support	10GE SFP+: SR, LR	10GE SFP+: SR, LR
RAID support	No	No
Pay-As-You-Grow & Burst Pack License upgrades	Upgrade option to MPX 8920, 8930	Upgrade option to MPX 8910, 8920, 8930
<b>Attributes</b>		
System throughput, Gbps (L7 throughput)	10	5
L7 HTTP requests/sec	1,400,000	990,000
SSL transactions/sec (2K key certificates) <sup>2</sup>	13,000	8,000
ECDHE transactions/sec <sup>3</sup>	6,000	4,000
SSL throughput, Gbps	10	5
Compression throughput, Gbps	3.5	2.5
ICA Proxy/SSL VPN concurrent users	10,000	10,000
Number of instances included/ Maximum number of instances (on SDX models)	N/A	N/A
<b>Mechanical, environmental, and regulatory</b>		
Power supplies	1 (2nd optional)	1 (2nd optional)
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	275W	275W
Typical, Max power consumption	225W	225W
Weight, lbs	25	25
Height	1U	1U
Width	EIA 310-D for 19 inch racks	EIA 310-D for 19 inch racks
Depth	61 cm (24 in)	61 cm (24 in)
Operating temperature	0-45 °C (32-113 °F)	0-45 °C (32-113 °F)
Allowed relative humidity	5-95%, non-condensing	5-95%, non-condensing
Safety certifications	CSA	CSA
Electromagnetic emission certifications & susceptibility standard	FCC, CE, VCCI, RCM, CCC, KCC, BIS, NOM, CITC, ICASA, EAC	
Regulatory compliance	RoHS, WEEE, REACH	RoHS, WEEE, REACH
Citrix compliance regulatory model	1U1P1A	1U1P1A

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

<sup>2</sup> Performance varies depending on ciphers deployed. Contact your Citrix sales representative for details.

<sup>3</sup> Hybrid SSL optimization (TLS1-ECDHE-RSA-AES128-SHA 256).

Platform	MPX 5910	MPX 5905	MPX 5901
<b>Attributes</b>			
Memory	16 GB	16 GB	16 GB
Ethernet ports <sup>1</sup>	2x 10GE SFP 6x 10/100/1000 CU	2x 10GE SFP 6x 10/100/1000 CU	2x 10GE SFP 6x 10/100/1000 CU
Transceivers support	10GE SFP+: SR, LR; 1GE SFP: CU		
RAID support	No	No	No
Pay-As-You-Grow & Burst Pack License upgrades	-	Upgrade option to MPX 5910	Upgrade option to MPX 5905, 5910
<b>Attributes</b>			
System throughput, Gbps (L7 throughput)	10	5	1
L7 HTTP requests/sec	900,000	700,000	400,000
SSL transactions/sec (2K key certificates) <sup>2</sup>	12,000	6,000	4,000
ECDHE transactions/sec <sup>3</sup>	6,000	3,000	1,700
SSL throughput, Gbps	8	5	1
Compression throughput, Gbps	2.5	1.5	1
ICA Proxy/SSL VPN concurrent users	5,000	5,000	5,000
Number of instances included/ Maximum number of instances (on SDX models)	N/A	N/A	N/A
<b>Mechanical, environmental, and regulatory</b>			
Power supplies	1 (2nd optional)	1 (2nd optional)	1 (2nd optional)
Input voltage and frequency ranges	100-240VAC full range	100-240VAC full range	100-240VAC full range
Optional DC power supply	Yes	Yes	Yes
Max power supply	366W	366W	366W
Typical, Max power consumption	300W, 840 BTU/Hr	300W, 840 BTU/Hr	300W, 840 BTU/Hr
Weight, lbs	25	25	25
Height	1U	1U	1U
Width	EIA 310-D for 19 inch racks	EIA 310-D for 19 inch racks	EIA 310-D for 19 inch racks
Depth	61 cm (24 in)	61 cm (24 in)	61 cm (24 in)
Operating temperature	0-45 °C (32-113 °F)	0-45 °C (32-113 °F)	0-45 °C (32-113 °F)
Allowed relative humidity	5-95%, non-condensing	5-95%, non-condensing	5-95%, non-condensing
Safety certifications	CSA	CSA	CSA
Electromagnetic emission certifications & susceptibility standard	FCC, CE, VCCI, RCM, CCC, KCC, BIS, NOM, CITC, ICASA, EAC		
Regulatory compliance	RoHS, WEEE, REACH	RoHS, WEEE, REACH	RoHS, WEEE, REACH
Citrix compliance regulatory model	1U1P1A	1U1P1A	1U1P1A

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

<sup>2</sup> Performance varies depending on ciphers deployed. Contact your Citrix sales representative for details.

<sup>3</sup> Hybrid SSL optimization (TLS1-ECDHE-RSA-AES182-SHA 256).

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# Technical Aspects

## Citrix Gateway

- Provides consolidation of secure remote access infrastructure with one URL
- Provides SAML 2.0 federated identity to provide single sign-on (SSO) across all applications, whether in a data center or in a cloud
- One URL to access any application
- 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, EPA, 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 and 4.2.x (Jelly Bean), 4.4.x (KitKat), 5.x (Lollipop)

## Secure access

- Citrix Virtual Apps and Desktops and Citrix Endpoint Management, formerly XenMobile, integration
- Device certificate scanning
- Single sign-on using NTLM/Kerberos/SAML, etc.
- SmartAccess: Adaptive application and action control enforced on Citrix Virtual Apps and Desktops servers
- SmartControl: Adaptive application and action control enforced on Citrix Gateway, thereby providing centralized policy management and security at the edge
- Integrated Citrix Gateway SSL VPN
- For ADC versions after 11.1, the Standard edition includes (500) Universal licenses, Enterprise or Advanced editions include (1000) Universal licenses, and there are no Universal license requirements with Platinum or Premium editions. For versions previous to Citrix ADC 11.1, the Standard and Enterprise editions include (5) Universal licenses, and the Platinum edition includes (100) Universal licenses.
- Endpoint analysis of user device
- SAML 2.0 and nFactor; passwords for single sign on to applications running behind Citrix Gateway
- AAA traffic management

- 
- SAML 2.0 and NTLMv1/2 support for configuring ADC with single sign-on (SSO)
  - Support for Active Directory, LDAP, RADIUS, TACACS +, OSCP, 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

### 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<sup>2</sup>

- inScale-Outin with clustering up to 32 Citrix ADC 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 Citrix ADC MPX, SDX, and VPX
- Modules may be configured on all nodes in a cluster or using “spotted VIPS,” in which they are added only to a select subset of nodes

### e-based policy enforcement

- Trigger ADC policies based upon connections per second, packets per second,

- 
- or bandwidth used
  - Source or destination-based upon header or payload information

#### 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 queuing<sup>2</sup>

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

#### Carrier-Grade Network Address Translation<sup>2</sup>

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

#### Subscriber-aware traffic steering

- Policy control interface: Gx, 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)

### Citrix Web App Firewall with hybrid security model<sup>3</sup>

- Positive security model protects against: buffer overflow, CGI- BIN parameter manipulation, form/hidden field manipulation, forceful browsing, cookie or session poisoning, broken ACLs, cross-site scripting (XSS), command injection, SQL injection, error triggering sensitive information leak, insecure use of cryptography, server misconfiguration, back doors and debug options, rate-based policy enforcement, well known platform vulnerabilities, zero-day exploits, cross site request forgery (CSRF), credit card and other sensitive data leakage prevention
- Negative security model with automatically updated signatures to protect against L7 and HTTP application vulnerabilities
- Integrates with third-party scanning tools
- Common event format (CEF) logs
- XML security: XML denial of service (xDoS)
- XML SQL injection and cross site scripting, XML message validation, format checks, WS-I basic profile compliance, XML, XPath injection attachment check, xQuery Injection protection
- WSDL scan prevention

- 
- Attachment checks
  - URL transformation
  - Cookie proxy and encryption
  - SOAP array attack protection

#### **IP Reputation service**

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

#### **Cloud connector for Citrix Networking<sup>3</sup>**

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

#### **Support for Citrix Endpoint Management MDM5**

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

### **Network Integration**

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

#### **High availability**

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

### **Simplified Installation and Management**

#### **User interface**

- Graphical application visualizer
- Secure web-based GUI
- CLI, Telnet, SSH, Console
- Real-time performance dashboard

- 
- LB, GSLB Application Firewall and configuration wizards for monitoring
  - Citrix Virtual Apps configuration wizards

#### **Policy management**

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

#### **Command Center**

- Centralized configuration and management of over 200 Citrix ADC appliances

#### **Citrix Application Delivery Management (ADM)**

- Citrix ADM is a software solution enabling traffic visibility; it includes HDX Insight and Web Insight and is based on AppFlow
- HDX Insight parses ICA sessions to provide troubleshooting, network analysis, and end-to-end performance for Citrix Virtual Apps and Desktops sessions. Historical data included in Premium Edition.
- Web Insight monitors real-time web application traffic and assists capacity planning and helps ensure SLAs
- AppFlow Standards-based NetFlow/IPFIX (Internet Protocol 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: Citrix ADC MIB and MIB-II support
- Microsoft System Center Operations Management (SCOM) support
- Comtrade support with Management Pack for Citrix ADC
- 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 Citrix Virtual Apps and Desktops
- Supports JAVA environments with MPX and VPX platforms running Citrix ADC nCore OS



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- Authentication methods include: LDAP, RADIUS, NTLM, TACACS+, Client Certificate
  - Manage HTTPS requests via included SSL VPN
  - Wizards-based configuration through Citrix ADC GUI
  - Login page customization
  - Includes Smart Access, smooth roaming, STA server redundancy, and session reliability

## Lower Total Cost of Ownership

### Web cache redirection<sup>2</sup>

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

<sup>1</sup> Additional ADC packs with 3 (8xxx) or 5 (all other models) instances each are available. For SDX 8015, the maximum number of instances is 5.

<sup>2</sup> Available in ADC Advanced and Premium editions only.

<sup>3</sup> Included in Premium edition only; not available with Standard or Advanced editions.

<sup>4</sup> Available as a license upgrade on all editions and for MPX, SDX (excluding 22000 series), and VPX appliances.

<sup>5</sup> Advanced edition with AppCache or Premium edition recommended.



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