

Citrix SD-WAN (formerly NetScaler SD-WAN) increases the performance and reliability of traditional enterprise applications, SaaS applications, and virtual desktops over any network while simplifying the branch network.



### Why Citrix SD-WAN

- Maintain high performance for mission-critical applications, even when a network link fails
- Improve the virtual desktop experience to branch-office and mobile users, and accelerate traditional enterprise applications
- Provides quality of service within a single HDX session for improved user experience
- Expand WAN capacity with low-cost broadband connections, while maintaining MPLS-level quality and reliability
- Support cloud migration with integrated security to protect enterprise data
- Simplify IT with integrated routing, firewall and WAN optimization to reduce network footprint
- Secure data across the WAN and to the cloud with strong encryption, application-level security policies and data segmentation
- Gain visibility into application delivery in order to proactively manage the user experience
- See the quality of your users' experience at a glance, and shorten the time to troubleshoot with the HDX QoE dashboard

### Citrix SD-WAN features

#### Migrating apps to the cloud

Citrix SD-WAN contains an integrated database and deep packet inspection to identify applications, including individual SaaS applications, and intelligently steer traffic from the branch to the internet, cloud, or SaaS. SD-WAN provides the ability to route traffic from the branch to the internet via a secure web gateway, which provides cloud-based security including firewall, URL filtering, and usage accounting. SD-WAN builds secure and reliable connections to the cloud to provide a WAN-like experience similar to the data center. For a hybrid multi-cloud scenario, Citrix hosts SD-WAN appliances in Equinix and uses their cloud exchange to provide automatic traffic routing and failover to a multi-cloud environment.

#### WAN virtualization for WAN efficiency

Citrix SD-WAN creates a reliable WAN from diverse network links, including MPLS, broadband, and wireless, continuously measuring and monitoring each link for loss, latency, jitter, and congestion. Link outages and errors are mitigated by Citrix SD-WAN's ability to move traffic off poor-performing links without impact to the applications, resulting in predictable and consistent performance. Mission-critical applications are always routed across the paths with the fastest transit time. Real-time application traffic can be duplicated to guarantee no loss. And traffic from high-bandwidth applications can be balanced across multiple links to provide high performance for large file transfers.

#### Application QoS for assured delivery

Citrix SD-WAN identifies applications through deep packet inspection technology that results in the industry's best accuracy granularity. Application and application elements can be grouped into different categories with different priorities and bandwidths. With the granular application awareness combined with network intelligence, the platform can ensure that critical applications receive priority and are routed across the highest-quality link. Lower-quality links are used for lower-priority applications that can tolerate higher latency. The Citrix SD-WAN endpoints also communicate with each other on congestion conditions, allowing sending devices to adjust transmission rates to match network capacity.

#### Dynamic routing for branch simplification

Citrix SD-WAN provides an alternative to the legacy branch router, enabling a simpler branch network with lower infrastructure and support costs. Multiple overlay routed networks can be software-defined, with separate policies and security rules applied to each. With dynamic routing, Citrix SD-WAN can participate in your routing topology in overlay mode for easy network insertion or operate in edge mode for a streamlined branch network with assured application delivery.

#### Integrated firewall for complete security

Citrix SD-WAN brings strong data protection to the network, from link layer security to a stateful firewall function. The firewall integrates with the application QoS to allow security policies to be centrally defined by application or application element, allowing you to limit or reject traffic by applications or application elements. Citrix SD-WAN also allows users to be segmented into different zones, allowing different policies to be applied per zone. Finally, Citrix SD-WAN provides strong encryption as data crosses public and private networks while easily integrating with cloud web gateways. Citrix SD-WAN can redirect internet traffic to a secure web gateway for next-generation firewall by creation of IPsec tunnels from the branch to Palo Alto's Global Protect cloud service. This reduces the need to deploy firewalls at the branches.

#### Application and WAN optimization usability and bandwidth efficiency

Through features such as TCP flow control, data compression, de-duplication, and protocol optimization, Citrix SD-WAN can improve the end-user experience as well as provide a reduction in WAN bandwidth expenses. And with video usage on the rise, Citrix SD-WAN can optimize video delivery within Citrix XenDesktop environments as well as for popular websites and internal video content repositories.

#### Management and visibility for centralized policies

To ensure great user experiences, enterprise IT must be able to quickly and easily deploy new sites on the network, easily define network and application policies, and identify the sources of problems in application delivery. Citrix SD-WAN allows centralized policy definition across all network services and zero touch deployment, radically simplifying the time and effort to turn up a new location on the WAN. Automatic bandwidth detection and adaptive bandwidth control simplifies the detection of WAN and provides detailed reporting on the true bandwidth available on each link over time. Through its integration with Citrix Application Delivery Management (formerly Citrix Management and Analytics System), Citrix SD-WAN monitors how well virtual applications are being delivered to users in the branch.

## Standard Edition appliances

Appliance	5100 SE				4100 SE		
Model	5100-4000-SE		5100-5000-SE		4100-2000-SE		4100-3000-SE
Total throughput <sup>1</sup>	8 Gbps		10 Gbps		4 Gbps		6 Gbps
Max virtual paths (static/dynamic)	550/32		550/32		256/32		256/32
Appliance	2100 SE				1000 SE		
Model	2100-0300-SE	2100-0500-SE	2100-1000-SE	2100-2000-SE	1000-020-SE	1000-050-SE	1000-100-SE
Total throughput <sup>1</sup>	600 Mbps	1 Gbps	2 Gbps	4 Gbps	40 Mbps	100 Mbps	200 Mbps
Max virtual paths (static/dynamic)	128/32	128/32	128/32	128/32	16/8	16/8	16/8
Appliance	410 SE				210 SE / 210 LTE SE		
Model	410-050-SE	410-100-SE	410-200-SE	410-300-SE	210-020-SE	210-050-SE	210-100-SE
Total throughput <sup>1</sup>	100 Mbps	200 Mbps	400 Mbps	600 Mbps	40 Mbps	100 Mbps	200 Mbps
Max virtual paths (static/dynamic)	16/8	16/8	16/8	16/8	8/4	8/4	8/4

## Standard Edition virtual and cloud appliances

Appliance	VPX SE					
Model	VPX-020-SE	VPX-050-SE	VPX-100-SE	VPX-200-SE	VPX-500-SE	VPX-1000-SE
Total throughput <sup>1</sup>	40 Mbps	100 Mbps	200 Mbps	400 Mbps	1 Gbps	2 Gbps
Max virtual paths	8	16	16	16	16	16
Hypervisor support <sup>2</sup>						
Citrix Hypervisor	Citrix Hypervisor 6.5 SP1	Citrix Hypervisor 6.5 SP1	Citrix Hypervisor 6.5 SP1	Citrix Hypervisor 6.5 SP1	Citrix Hypervisor 6.5 SP1	Citrix Hypervisor 6.5 SP1
VMware	ESX/ESXi 5.5 & 6.0	ESX/ESXi 5.5 & 6.0	ESX/ESXi 5.5 & 6.0	ESXi6.0	ESXi6.0	ESXi6.0
HyperV	2012 R2	2012 R2	2012 R2	2012 R2	2012 R2	2012 R2
KVM	Ubuntu 16.04	Ubuntu 16.04	Ubuntu 16.04	Ubuntu 16.04	Ubuntu 16.04	Ubuntu 16.04
Processor	Dual Core Intel VTx2	Dual Core Intel VTx2	Dual Core Intel VTx2	Quad Core Intel VTx2	Quad Core Intel VTx2	Quad Core Intel VTx2
Memory	4 GB	4 GB	4 GB	4G	8G	8G
Virtual CPU	2 vCPU @ 2.7 Ghz	2 vCPU @ 2.7 Ghz	2 vCPU @ 2.7 Ghz	4vCPU @ 2.7GHz	8vCPU @ 2.7GHz	8vCPU @ 3.0GHz
Cloud Support <sup>3</sup>						
AWS	m4.2xlarge	m4.2xlarge	m4.2xlarge	m4.2xlarge	c4.2xlarge	c4.4xlarge
Azure	D3_v2	D3_v2	D4_v2	D4_v2	n/a	n/a

Appliance	VPX-L SE					
Model	VPX-L 020-SE	VPX-L 050-SE	VPX-L 100-SE	VPX-L 200-SE	VPX-L 500-SE	VPX-L 1000-SE
Total throughput <sup>1</sup>	40 Mbps	100 Mbps	200 Mbps	400 Mbps	1 Gbps	2 Gbps
Max virtual paths	128	128	128	128	128	128
Hypervisor support <sup>2</sup>						
Citrix Hypervisor	Citrix Hypervisor 6.5 SP1	Citrix Hypervisor 6.5 SP1	Citrix Hypervisor 6.5 SP1	Citrix Hypervisor 6.5 SP1	Citrix Hypervisor 6.5 SP1	Citrix Hypervisor 6.5 SP1
VMware	ESX/ESXi 5.5 & 6.0	ESX/ESXi 5.5 & 6.0	ESX/ESXi 5.5 & 6.0	ESXi6.0	ESXi6.0	ESXi6.0
HyperV	2012 R2	2012 R2	2012 R2	2012 R2	2012 R2	2012 R2
KVM	Ubuntu 16.04	Ubuntu 16.04	Ubuntu 16.04	Ubuntu 16.04	Ubuntu 16.04	Ubuntu 16.04
Memory	16 GB	16 GB	16 GB	16 GB	16 GB	16 GB
Virtual CPU	16v CPU @ 2.7 GHz	16v CPU @ 2.7 GHz	16v CPU @ 2.7 GHz	16v CPU @ 2.7 GHz	16v CPU @ 2.7 GHz	16v CPU@2.7 GHz
HDD	250 GB	250 GB	250 GB	250 GB	250 GB	250 GB
Cloud Support <sup>3</sup>						
AWS	m4.4xlarge	m4.4xlarge	m4.4xlarge	m4.4xlarge	m4.4xlarge	m4.4xlarge
Azure	F8	F8	F8	F8	n/a	n/a

<sup>1</sup>Total throughput refers to total amount of bandwidth that the appliance model is licensed for, both upstream and downstream, and is based on AES-128 encryption.

<sup>2</sup>The VPX images are qualified to run on Intel processors only.

<sup>3</sup>Cloud server types are the minimum recommended server size to support the listed performance numbers for each model.

Software features	
Deployment	In-line overlay, one-armed overlay, edge gateway, cloud
Path assignment	Per-packet, packet load balancing, packet duplication, by application
QoS	Scheduling, shaping, classification, remarking
Routing	eBGP, iBGP, OSPF, static, multicast
Security	L4-7 application firewall, NAT, secure web gateway connectivity, FIPS compliant
Layer 2	VLAN (802.1Q), bridging, SVI
Tunnel Interfaces	GRE, IPSec, Citrix virtual path
Network Encryption	128 bit AES, 256 bit AES, IPSec
Authentication	Local database, RADIUS, TACACS+
Manageability	SNMP V3, DHCP relay/agent/client, syslog, NetFlow, REST API
Configuration	Zero Touch Deployment service, GUI, customizable templates, REST API

## Enterprise Edition appliances

Appliance	2100-EE		
Model	2100-300-EE	2100-500-EE	2100-1000-EE
Total throughput <sup>4</sup>	600 Mbps	1 Gbps	2 Gbps
Maximum virtual paths	128	128	128
Optimized application capacity <sup>5,6</sup>	50 Mbps	100 Mbps	100 Mbps
Maximum HDX CCUs <sup>7</sup>	300	300	300
Maximum accelerated TCP sessions <sup>7</sup>	20,000	20,000	20,000

Appliance	1000-EE			
Model	1000-010-EE	1000-020-EE	1000-050-EE	1000-100-EE
Total throughput <sup>4</sup>	20 Mbps	40 Mbps	100 Mbps	200 Mbps
Maximum virtual paths	16	16	16	16
Optimized application capacity <sup>5,6</sup>	4 Mbps	6 Mbps	10 Mbps	20 Mbps
Maximum HDX CCUs <sup>7</sup>	40	60	100	200
Maximum accelerated TCP sessions <sup>8</sup>	10,000	10,000	10,000	10,000

Software features	
Deployment	In-line overlay, one-armed overlay, edge gateway, cloud
Path assignment	Per-packet, packet load balancing, packet duplication, by application
QoS	Scheduling, shaping, classification, remarking
Routing	eBGP, iBGP, OSPF, static, multicast
Security	L4-7 application firewall, NAT, secure web gateway connectivity, FIPS compliant
Layer 2	VLAN (802.1Q), bridging, SVI
Tunnel interfaces	GRE, IPSec, Citrix virtual path
Network encryption	128 bit AES, 256 bit AES, IPSec
Authentication	Local database, RADIUS, TACACS+
Manageability	SNMP V3, DHCP relay/agent/client, syslog, NetFlow, REST API
Configuration	Zero Touch Deployment service, GUI, customizable templates, REST API

<sup>4</sup>Total SD-WAN throughput refers to total amount of bandwidth that the appliance model is licensed for, both upstream and downstream, and is based on AES-128 encryption.

<sup>5</sup>Only outbound WAN traffic is counted against the licensed bandwidth. Inbound QoS and/or unaccelerated traffic does not count against the licensed bandwidth. Total inbound traffic should not exceed this threshold.

<sup>6</sup>Some protocols (for example ICA) can limit the processing capacity of the appliance before the licensed bandwidth is reached.

<sup>7</sup>User count is based upon a medium-level workload as defined by Login VSI and XenDesktop/XenApp advanced encryption security. User count is limited by link bandwidth and TCP session counts. No user count is enforced. Published numbers are for guidance purposes only.

<sup>8</sup>TCP session count will be reduced by active HDX sessions. No session count is enforced. Published numbers are for guidance purposes.

## WANOP Edition appliances

Appliance	5100-WANOP		4100-WANOP			3000-WANOP		
Model	5100-1500-WO	5100-2000-WO	4100-310-WO	4100-500-WO	4100-1000-WO	3000-050-WO	3000-100-WO	3000-155-WO
Optimized WAN capacity <sup>9,10</sup>	1.5 Gbps	2 Gbps	310 Mbps	500 Mbps	1 Gbps	50 Mbps	100 Mbps	155 Mbps
QoS/unaccelerated throughput limit <sup>9</sup>	2 Gbps	4 Gbps	500 Mbps	1 Gbps	2 Gbps	500 Mbps	500 Mbps	500 Mbps
Maximum HDX CCUs <sup>11</sup>	3,500	5,000	750	1,200	2,500	300	400	500
Maximum accelerated TCP sessions <sup>12</sup>	120,000	160,000	40,000	60,000	120,000	50,000	50,000	50,000
Concurrent Citrix SD-WAN client plug-ins	3,600	4,800	1,100	1,800	3,600	750	1,000	1200
Video caching						•	•	•
WCCP clustering	•	•	•	•	•	•	•	•
Networking Cloud Connector	•	•	•	•	•			

Appliance	2000-WANOP			1000-WANOP		
Model	2000-010	2000-020	2000-050	1000-006	1000-010	1000-020
Optimized WAN capacity <sup>9,10</sup>	10 Mbps	20 Mbps	50 Mbps	6 Mbps	10 Mbps	20 Mbps
QoS/unaccelerated throughput limit <sup>9</sup>	200 Mbps			50 Mbps		
Maximum HDX CCUs <sup>11</sup>	100	200	300	60	100	200
Maximum accelerated TCP sessions <sup>11</sup>	20,000	20,000	20,000	10,000	10,000	10,000
Concurrent Citrix SD-WAN client plug-ins	100	200	750			
Video caching	•	•	•	•	•	•
WCCP clustering	•	•	•	•	•	•
Networking Cloud Connector						
Group mode	•	•	•	•	•	•

Appliance	800-WANOP		
Model	800-002-WO	800-006-WO	800-010-WO
Optimized WAN capacity <sup>9,10</sup>	2 Mbps	6 Mbps	10 Mbps
QoS/unaccelerated throughput limit <sup>9</sup>	50 Mbps	50 Mbps	50 Mbps
Maximum HDX CCUs <sup>11</sup>	20	60	100
Maximum accelerated TCP sessions <sup>12</sup>	10,000	10,000	10,000
Concurrent Citrix SD-WAN client plug-ins			
Video caching	•	•	•
WCCP clustering	•	•	•
Networking Cloud Connector			
Group mode	•	•	•

<sup>9</sup>Only outbound WAN traffic is counted against the licensed bandwidth. Inbound QoS and/or unaccelerated traffic does not count against the licensed bandwidth. Total inbound traffic should not exceed this threshold.

<sup>10</sup>Some protocols (for example ICA) can limit the processing capacity of the appliance before the licensed bandwidth is reached.

<sup>11</sup>User count is based upon a medium-level workload as defined by Login VSI and XenDesktop/XenApp advanced encryption security. User count is limited by link bandwidth and TCP session counts. No user count is enforced. Published numbers are for guidance purposes only.

<sup>12</sup>TCP session count will be reduced by active HDX sessions. No session count is enforced. Published numbers are for guidance purposes.

## WANOP Edition virtual appliances

### Appliance

### VPX

Model	VPX 2	VPX 6	VPX 10	VPX 20	VPX 50	VPX 100	VPX 200	
Optimized WAN capacity <sup>17,18</sup>	2 Mbps	6 Mbps	10 Mbps	20 Mbps	50 Mbps	100 Mbps	200 Mbps	
QoS/unaccelerated bandwidth limit	15 Mbps	50 Mbps	75 Mbps	150 Mbps	250 Mbps	250 Mbps	300 Mbps	
Maximum HDX CCUs <sup>19</sup>	20	60	100	200	300	400	500	
Maximum accelerated TCP sessions <sup>12</sup>	5,000	5,000	5,000	10,000	10,000	20,000	30,000	
Concurrent Citrix SD-WAN client plug-ins	20	60	100	200	300	400	500	
Video caching	•	•	•	•	•			
WCCP clustering					•	•	•	
Networking Cloud Connector <sup>21</sup>	•	•	•	•	•	•	•	
Group mode								
Hypervisor	Citrix Hypervisor 5.5 - 6.2, Hyper-V 2008R2SP1 - 2012, ESX/ESXi 4.1-6.0							
Processor	Dual core (quad core recommended) Intel VTx or AMD-V 64-bit x86 <sup>22</sup>							
Memory	4 GB					8 GB	16 GB	
Virtual CPU	1 x Citrix Hypervisor & 2 x VMware vSphere (>2.33GHz)	2-4 x Citrix Hypervisor, Hyper-V & VMware vSphere (>2.33GHz)					2-4 x Citrix Hypervisor, Hyper-V & VMware vSphere (~3.0GHz)	
Hard drive <sup>23</sup>	100 GB	100 GB	250 GB	250 GB	250 GB	500 GB	500 GB	
Network interface	2 virtual NICs							

<sup>17</sup>Only outbound WAN traffic is counted against the licensed bandwidth. Inbound QoS and/or unaccelerated traffic does not count against the licensed bandwidth. Total inbound traffic should not exceed this threshold.

<sup>18</sup>Some protocols (for example ICA) can limit the processing capacity of the appliance before the licensed bandwidth is reached.

<sup>19</sup>User count is based upon a medium level workload as defined by Login VSI and XenDesktop / XenApp advanced encryption security. User count is limited by link bandwidth and TCP session counts. No user count is enforced. Published numbers are for guidance purposes only.

<sup>20</sup>TCP session count will be reduced by active HDX sessions. No session count is enforced. Published numbers are for guidance purposes.

<sup>21</sup>For Citrix SD-WAN appliances, the Citrix Networking Cloud Connector is delivered as a separate software appliance.

<sup>22</sup>The VPX images are qualified to run on Intel processors only.

<sup>23</sup>For best performance, use solid state drives or high IOPs storage devices.

Hardware specifications					
Appliance	5100-SE	5100-WO	4100-SE	4100-WO	3000
<b>Storage</b>					
Total disk space	2 TB (HDD)	6.8 TB (HDD)	2TB (HDD)	5.2 TB (HDD)	2.4 TB
Compression history (SSD)	N/A	4.3 TB	N/A	2.8 TB	1.5 TB
RAM	128 GB	128 GB	96 GB	96 GB	32 GB
<b>Network interfaces<sup>24</sup></b>					
Fail-to-wire	4 x 10GBase-SR	4 x 10GBase-SR	2 x 10GBase-SR 4 x 1000Base-TX	2 x 10GBase-SR 4 x 1000Base-TX	6 x 1000Base-TX -or- 4 x 1000Base-SX
Non-Fail-to-wire	4 x 10G/1G SFP+	4 x 10G/1G SFP+	4 x 10G/1G SFP+	4 x 10G/1G SFP+	
Management	2 x 1000Base-TX	2 x 1000Base-TX	2 x 1000Base-TX	2 x 1000Base-TX	2 x 1000Base-TX
<b>Mechanical</b>					
Rack units	2U (3.5 inches / 8.90 cm)				1U (1.75 inches/4.45 cm)
Rack options	EIA 310-D, IEC 60297, DIN 41494-SC48D rack width with mounting brackets				
System depth	28"/72 cm	28"/72 cm	28"/72 cm	28"/72 cm	24" (63.5 cm)
System weight	60 lbs (27.2 kg)	60 lbs (27.2 kg)	60 lbs (27.2 kg)	60 lbs (27.2 kg)	33 lbs (15 kg)
Shipping dimensions	36.5" x 24.5" by 11" (94 x 63 x 28 cm)	36.5" x 24.5" by 11" (94 x 63 x 28 cm)	36.5 X 24.5 X 11 (94 x 63 x 28 cm)	36.5 X 24.5 X 11 (94 x 63 x 28 cm)	32" x 23.5" x 7.5" (81.5 x 59.7 x 19.1 cm)
Shipping weight	69 lbs (31.3 kg)	69 lbs (31.3 kg)	69 lbs (31.3 kg)	69 lbs (31.3 kg)	40 lbs (18.1 kg)
<b>Power, environmental, and regulatory</b>					
Power supplies	Dual Redundant, Hot Swappable				Single (optional dual redundant)
Wattage (Max)	1000W	1000W	1000W	1000W	450W (900W w/redundant PSU)
Input voltage / frequency ranges	100-240 VAC, 47-63 Hz	100-240 VAC, 47-63 Hz	100-240VAC, 47-63 Hz	100-240 VAC, 47-63 Hz	100-240 VAC, 50-60 Hz
Input current	9.0-4.5A	9.0-4.5A	7.0-3.5A	7.0-3.5A	2.5-1.0A
Operating temperature	32-104 F (0-40 C)				
Operating altitude	0-4921 ft. (0-1500M)				
Storage temperature	14F to 140F (-10C to 60C)				
Allowed relative humidity	20%-80%, non-condensing	20%-80%, non-condensing	20%-80%, non-condensing	20%-80%, non-condensing	5%-95%, non-condensing
Safety certifications	CSA	CSA	CSA	CSA	UL, TUV-C
Electromagnetic emissions, safety and environmental	FCC (Part 15 Class A), CCC, KCC, NOM, CITC, EAC, DoC, CE, VCCI, RCM				
Environmental compliance	RoHS, WEEE				

<sup>24</sup>Published Ethernet interfaces compliant per IEEE802.3-2002/2005/2008/2012.

## Hardware specifications

Appliance	2100-EE	2000	1000	800
<b>Storage</b>				
Total disk space (SSD)	480GB (SSD)	600 GB	300 GB	240 GB
Compression history (SSD)	240GB (SSD)	275 GB	148 GB	80 GB
RAM	32GB	32 GB	24 GB	8 GB
<b>Network interfaces<sup>24</sup></b>				
Fail-to-wire	4 x 1000Base-TX		4 x 1000Base-TX	
Non-Fail-to-wire	4 x 1GE SFP		-	
Management interfaces	1 x 1000Base-TX		2 x 1000Base-TX	
<b>Mechanical</b>				
Rack units	1RU (1.75 inches/4.45 cm)			
Rack options	EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets			
System depth	24" (63.5 cm)	24" (63.5 cm)	10.5" (26.7 cm)	10.5" (26.7 cm)
System weight	26 lbs (11.8 kg)	32 lbs (14.6 kg)	8 lbs (3.63 kg)	8 lbs (3.63 kg)
Shipping dimensions	33" x 24" x 8" (76.2 x 61.0 x 20.3 cm)	32" x 23.5" x 7.5" (81.5 x 59.7 x 19.1 cm)	25.5" x 6.1" x 18.5" (64.8 x 15.5 x 47.0 cm)	25.5" x 6.1" x 18.5" (64.8 x 15.5 x 47.0 cm)
Shipping weight	40 lbs (18.1 kg)	39 lbs (17.8 kg)	14.0 lbs (6.35 kg)	14.0 lbs (6.35 kg)
<b>Power, environmental, and regulatory</b>				
Power supplies	Single (optional dual redundant)	Single	Single	Single
Wattage (Max)	450W	300W	200W	200W
Input voltage/frequency ranges	100-240 VAC, 50-60 Hz			
Input current	3.4-1.7A	1.5 - 0.6A	2.6A Max	2.6A Max
Operating temperature	32F to 104F (0C to 40C)			
Operating altitude	0–4921 ft. (0-1500M)			
Storage temperature	14F to 140F (-10C to 60C)		–4F to 140F (–20C to 60C)	
Allowed relative humidity	20%-80% non-condensing	5%-95% non-condensing		
Safety certifications	CSA	UL, TUV-C		
Electromagnetic emissions, safety and environmental	FCC (Part 15 Class A), CCC, KCC, NOM, CITC, EAC, DoC, CE, VCCI, RCM			
Environmental compliance	RoHS, WEEE			
Citrix compliance regulatory model	1U1P1A	NS 6xCu	CB 504-2	

<sup>24</sup>Published Ethernet interfaces compliant per IEEE802.3-2002/2005/2008/2012.

## Hardware specifications

Appliance	410-SE	210-SE	210-LTE-SE (R1/R2)
<b>Storage</b>			
Total disk space (SSD)	60 GB	64GB (mSATA)	64GB (mSATA)
Compression history (SSD)	N/A	N/A	N/A
RAM	8 GB	4 GB	4 GB
<b>Network interfaces<sup>24</sup></b>			
Fail-to-wire	6 x 1000Base-TX	2x 10/100/1000 Ethernet with Bypass RJ45	2x 10/100/1000 Ethernet with Bypass RJ45
Non-Fail-to-wire	-	1x 10/100/1000 Ethernet RJ45 2 x flexible ports (10/100/1000 Ethernet RJ45 or 1GE SFP)	2 x flexible ports (10/100/1000 Ethernet RJ45 or 1GE SFP)
Management interfaces	1 x 1000Base-TX	1x 10/100/1000 RJ45	1x 10/100/1000 RJ45
Integrated LTE	-	-	1 X LTE Modem <sup>25</sup>
<b>Mechanical</b>			
Rack units	1RU (1.75 inches/4.45 cm)	1RU (1.75 inches/4.45 cm)	1RU (1.75 inches/4.45 cm)
Rack options	EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets	EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets	EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets
System depth	14" (35 cm)	6.9"	6.9"
System weight	8.5 lbs (3.87 kg)	2.75 lbs (1.25 kg)	3.15 lbs (1.42 kg)
Shipping dimensions	26" x 6.5" x 18.5" (66.1 x 16.6 x 47.0 cm)	17.5" X 12" X 2.75" (44.5 x 30.5 x 7.0 cm)	17.5" X 12" X 2.75" (44.5 x 30.5 x 7.0 cm)
Shipping weight	13.5 lbs (6.14 kg)	4.6 lbs (2.09 kg)	5.0 lbs (2.27 kg)
<b>Power, environmental, and regulatory</b>			
Power supplies	Single	Single	Single
Wattage (Max)	200W	45W external	45W external
Input voltage/frequency ranges	100-240 VAC, 50-60 Hz	100-240VAC, 47-63Hz	100-240VAC, 47-63Hz
Input current	3-1.5A	4.0-2.1A	4.0-2.1A
Operating temperature	32F to 104F (0C to 40C)	32F to 104F (0C to 40C)	32F to 104F (0C to 40C)
Operating altitude	0-4921 ft. (0-1500M)	0-4921 ft. (0-1500M)	0-4921 ft. (0-1500M)
Storage temperature	14F to 140F (-10C to 60C)	14F to 140F (-10C to 60C)	14F to 140F (-10C to 60C)
Allowed relative humidity	20%-80% non-condensing	5%-90%, non-condensing	5%-90%, non-condensing
Safety certifications	CSA	UL	UL
EMC	FCC (Part 15 Class A), CCC, KCC, NOM, CITC, EAC, CE, VCCI, RCM, RCM, Anatel, NTRA, BIS ,MOC, ICASA, BSMI	FCC (part 15 Class A), CE, VCCI	FCC (part 15 Class A), CE, VCCI
Environmental compliance	RoHS, WEEE, REACH	RoHS, WEEE, REACH	RoHS, WEEE, REACH
Citrix compliance regulatory model	512-2	SDW-210	SDW-210-LTE-R1 and SDW-210-LTE-R2

<sup>24</sup>Published Ethernet interfaces compliant per IEEE802.3-2002/2005/2008/2012.

<sup>25</sup>210-LTE-R1: Primarily for Americas and EMEA regions. Exceptions apply for some countries. Bands Supported: B1-B5, B7, B12, B13, B20, B25, B26, B29, B30, B41 | 210-LTE-R2: Primarily for APAC Region. Exceptions apply for some countries. Bands Supported: B1, B3, B5, B7, B8, B18, B19, B21, B28, B38-B41 | 210-LTE. | Please contact your Citrix sales representative for more information.



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