

Citrix SD-WAN Data Sheet



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.

Citrix SD-WAN Features

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

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 Virtual Desktop 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 | 5100-6000-SE | | 4100-2000-SE | 4100-3000-SE | |
| Total Encrypted Throughput ¹ | 8 Gbps | 10 Gbps | 12 Gbps | | 4 Gbps | 6 Gbps | |
| Max Virtual Paths (Static/Dynamic) | 550/32 | 550/32 | 550/32 | | 550/32 | 550/32 | |

| Appliance | 2100 SE | | | | 1100 SE | | |
|---|--------------|--------------|--------------|--------------|-------------|-------------|-------------|
| Model | 2100-0300-SE | 2100-0500-SE | 2100-1000-SE | 2100-2000-SE | 1100-200-SE | 1100-300-SE | 1100-500-SE |
| Total Encrypted Throughput ¹ | 600 Mbps | 1 Gbps | 2 Gbps | 4 Gbps | 400 Mbps | 600 Mbps | 1 Gbps |
| Max Virtual Paths (Static/Dynamic) | 256/32 | 256/32 | 256/32 | 256/32 | 64/32 | 64/32 | 64/32 |

| Appliance | 1000 SE | | | 410 SE | | | |
|---|-------------|-------------|-------------|------------|------------|------------|------------|
| Model | 1000-020-SE | 1000-050-SE | 1000-100-SE | 410-050-SE | 410-100-SE | 410-200-SE | 410-300-SE |
| Total Encrypted Throughput ¹ | 40 Mbps | 100 Mbps | 200 Mbps | 100 Mbps | 200 Mbps | 400 Mbps | 600 Mbps |
| Max Virtual Paths (Static/Dynamic) | 16/8 | 16/8 | 16/8 | 24/8 | 24/8 | 24/8 | 24/8 |

| Appliance | 210 SE/210 LTE SE (R1/R2/RC) | | | | | |
|---|------------------------------|--|------------|--|------------|------------|
| Model | 210-020-SE | | 210-050-SE | | 210-100-SE | 210-200-SE |
| Total Encrypted Throughput ¹ | 40 Mbps | | 100 Mbps | | 200 Mbps | 400 Mbps |
| Max Virtual Paths (Static/Dynamic) | 16/4 | | 16/4 | | 16/4 | 16/4 |

Standard Edition Virtual & 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 Encrypted Throughput ¹ | 40 Mbps | 100 Mbps | 200 Mbps | 400 Mbps | 1 Gbps | 2 Gbps |
| Max Virtual Paths (Static/Dynamic) | 8 | 16 | 16 | 16 | 16 | 16 |

| Hypervisor Support ² | Citrix Hypervisor 6.5 SP1 | | | | | |
|---------------------------------|---------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| VMware | ESX/ESXi 5.5 & 6.0 | ESX/ESXi 5.5 & 6.0 | ESX/ESXi 5.5 & 6.0 | ESXi 6.0 | ESXi 6.0 | ESXi 6.0 |
| HyperV | 2012 R2 | | | | | |
| KVM | 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 | 4 GB | 8 GB | 8 GB |
| Virtual CPU | 2vCPU @ 2.7 GHz | 2vCPU @ 2.7 GHz | 2vCPU @ 2.7 GHz | 4vCPU @ 2.7 GHz | 8vCPU @ 2.7 GHz | 8vCPU @ 3.0 GHz |

| Cloud Support ³ | | | | | | |
|----------------------------|------------|------------|------------|------------|------------|------------|
| AWS | m4.2xlarge | m4.2xlarge | m4.2xlarge | m4.2xlarge | c4.2xlarge | c4.4xlarge |
| Azure | D3_v2 | D3_v2 | D3_v2 | D3_v2 | D3_v2 | D4_v2 |

¹ Total encrypted 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.

² The VPX images are qualified to run on Intel processors only.

Standard Edition Virtual & Cloud Appliances (Continued)

| 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 Encrypted Throughput ¹ | 40 Mbps | 100 Mbps | 200 Mbps | 400 Mbps | 1 Gbps | 2 Gbps |
| Max Virtual Paths | 128 | 128 | 128 | 128 | 128 | 128 |
| Hypervisor Support² | | | | | | |
| Citrix Hypervisor | Citrix Hypervisor 6.5 SP1 | | | | | |
| VMware | ESX/ESXi 5.5 & 6.0 | ESX/ESXi 5.5 & 6.0 | ESX/ESXi 5.5 & 6.0 | ESXi 6.0 | ESXi 6.0 | ESXi 6.0 |
| HyperV | 2012 R2 | | | | | |
| KVM | Ubuntu 16.04 | | | | | |
| Memory | 16 GB | | | | | |
| Virtual CPU | 16vCPU @ 2.7 GHz | | | | | |
| HDD | 250 GB | | | | | |
| Cloud Support³ | | | | | | |
| AWS | m4.4xlarge | | | | | |
| Azure | F8 | F8 | F8 | F8 | F8 | F16 |

Software Features

| | |
|-------------------------|--|
| Application Performance | Per packet/app steering, Packet duplication, Packet retransmissions, Dual-ended QoS, Application QoE, Per-app business policies for over 4000 apps, Citrix HDX/ICA integration |
| Authentication | Local database, RADIUS, TACACS+ |
| Cloud WAN | Azure Virtual WAN, Teridion |
| Configuration | Zero touch deployment service, GUI, Customizable dashboards & templates, REST API |
| Deployment | In-line overlay, One-armed overlay, Edge gateway, Cloud |
| High Availability | Parallel Inline HA, Fail-to-Wire HA, One-arm HA, VRRP, Geo-redundant HA |
| Layer 2 | VLAN (802.1Q), Bridging, SVI, PPPoE |
| Link Management | Transport Agnostic, Bi-directional link monitoring, Link bonding, Metered links, Standby links, Link of Last Resort |
| Manageability | SD-WAN Cloud Orchestrator, On-premise SD-WAN Center, SD-WAN Center in AWS and Azure, CLI, SNMP V3, DHCP Server/Relay/Client, DNS Forwarder, Syslog, NetFlow, IPFIX, REST API |
| Mobile Broadband | 3G/4G/LTE, Zero touch deployment over LTE, Authentication types: PAP/CHAP/PAPCHAP, SIM lock/unlock, Support for antenna extenders |
| Network Encryption | 128 bit AES, 256 bit AES, IPSec |
| QoS | Scheduling, Shaping, Classification, Remarking, HDX AutoQoS |
| Routing | eBGP, iBGP, OSPF, Static, Multicast |
| SaaS/IaaS | Optimized Office 365 Breakout, AWS, Azure |
| Security (Cloud) | Zscaler, Palo Alto Global Protect Cloud Service (GPCS) |
| Security (On-premise) | L4-7 Application Firewall, NAT, Secure Web Gateway connectivity, FIPS compliant |
| Tunnel Interfaces | GRE, IPSec, Citrix Virtual Path |

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

Premium Edition Appliances

| Appliance | 5100 PE | | 2100 PE | |
|---|--------------|-------------|-------------|--------------|
| Model | 5100-3000-PE | 2100-300-PE | 2100-500-PE | 2100-1000-PE |
| Total Encrypted Throughput ⁴ | 6 Gbps | 600 Mbps | 1 Gbps | 2 Gbps |
| Max Virtual Paths (Static/Dynamic) | 550/32 | 256/32 | 256/32 | 256/32 |
| Optimized Application Capacity ^{5,6} | 500 Mbps | 50 Mbps | 100 Mbps | 100 Mbps |
| Maximum HDX CCUs ⁷ | 750 | 300 | 300 | 300 |
| Maximum Accelerated TCP Sessions ⁸ | 60,000 | 20,000 | 20,000 | 20,000 |

| Appliance | 1100 PE | | |
|---|-------------|-------------|-------------|
| Model | 1100-200-PE | 1100-300-PE | 1100-500-PE |
| Total Encrypted Throughput ⁴ | 400 Mbps | 600 Mbps | 1 Gbps |
| Max Virtual Paths (Static/Dynamic) | 64/32 | 64/32 | 64/32 |
| Optimized Application Capacity ^{5,6} | 10 Mbps | 20 Mbps | 50 Mbps |
| Maximum HDX CCUs ⁷ | 100 | 300 | 300 |
| Maximum Accelerated TCP Sessions ⁸ | 10,000 | 10,000 | 10,000 |

| Appliance | 1000 PE | | | |
|---|-------------|-------------|-------------|-------------|
| Model | 1000-010-PE | 1000-020-PE | 1000-050-PE | 1000-100-PE |
| Total Encrypted Throughput ⁴ | 20 Mbps | 40 Mbps | 100 Mbps | 200 Mbps |
| Max Virtual Paths (Static/Dynamic) | 16/8 | 16/8 | 16/8 | 16/8 |
| Optimized Application Capacity ^{5,6} | 4 Mbps | 6 Mbps | 10 Mbps | 20 Mbps |
| Maximum HDX CCUs ⁷ | 40 | 60 | 100 | 200 |
| Maximum Accelerated TCP Sessions ⁸ | 10,000 | 10,000 | 10,000 | 10,000 |

⁴Total encrypted 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.

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

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

⁷User count is based upon a medium-level workload as defined by Login VSI and Virtual Desktops/Apps 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.

⁸TCP 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 | | |
|---|--------------|--------------|-------------|-------------|--------------|
| Model | 5100-1500-WO | 5100-2000-WO | 4100-310-WO | 4100-500-WO | 4100-1000-WO |
| Optimized WAN Capacity ^{9,10} | 1.5 Gbps | 2 Gbps | 310 Mbps | 500 Mbps | 1 Gbps |
| QoS/Unaccelerated Throughput Limit ⁹ | 2 Gbps | 4 Gbps | 500 Mbps | 1 Gbps | 2 Gbps |
| Maximum HDX CCUs ¹¹ | 3,500 | 5,000 | 750 | 1,200 | 2,500 |
| Maximum Accelerated TCP Sessions ¹² | 120,000 | 160,000 | 40,000 | 60,000 | 120,000 |
| Concurrent Citrix SD-WAN Client Plug-ins | 3,600 | 4,800 | 1,100 | 1,800 | 3,600 |
| Video Caching | | | | | |
| WCCP Clustering | . | . | . | . | . |
| Networking Cloud Connector | . | . | . | . | . |
| Group Mode | | | | | |

| Appliance | 3000 WANOP | | | 2000 WANOP | | |
|---|-------------|-------------|-------------|-------------|-------------|-------------|
| Model | 3000-050-WO | 3000-100-WO | 3000-155-WO | 2000-010-WO | 2000-020-WO | 2000-050-WO |
| Optimized WAN Capacity ^{9,10} | 50 Mbps | 100 Mbps | 155 Mbps | 10 Mbps | 20 Mbps | 50 Mbps |
| QoS/Unaccelerated Throughput Limit ⁹ | 500 Mbps | 500 Mbps | 500 Mbps | 200 Mbps | 200 Mbps | 200 Mbps |
| Maximum HDX CCUs ¹¹ | 300 | 400 | 500 | 100 | 200 | 300 |
| Maximum Accelerated TCP Sessions ¹² | 50,000 | 50,000 | 50,000 | 20,000 | 20,000 | 20,000 |
| Concurrent Citrix SD-WAN Client Plug-ins | 750 | 1,000 | 1,200 | 100 | 200 | 750 |
| Video Caching | . | . | . | . | . | . |
| WCCP Clustering | . | . | . | . | . | . |
| Networking Cloud Connector | | | | | | |
| Group Mode | . | . | . | . | . | . |

| Appliance | 1000 WANOP | | | 800 WANOP | | |
|---|-------------|-------------|-------------|------------|------------|------------|
| Model | 1000-006-WO | 1000-010-WO | 1000-020-WO | 800-002-WO | 800-006-WO | 800-010-WO |
| Optimized WAN Capacity ^{9,10} | 6 Mbps | 10 Mbps | 20 Mbps | 2 Mbps | 6 Mbps | 10 Mbps |
| QoS/Unaccelerated Throughput Limit ⁹ | 50 Mbps | 50 Mbps | 50 Mbps | 50 Mbps | 50 Mbps | 50 Mbps |
| Maximum HDX CCUs ¹¹ | 60 | 100 | 200 | 20 | 60 | 100 |
| Maximum Accelerated TCP Sessions ¹² | 10,000 | 10,000 | 10,000 | 10,000 | 10,000 | 10,000 |
| Concurrent Citrix SD-WAN Client Plug-ins | | | | | | |
| Video Caching | . | . | . | . | . | . |
| WCCP Clustering | . | . | . | . | . | . |
| Networking Cloud Connector | | | | | | |
| Group Mode | . | . | . | . | . | . |

WANOP Edition Virtual Appliances

| Appliance | VPX | | | | | | | |
|--|---|--|-----------|-----------|-----------|------------|---|--|
| Model | VPX 2-WO | VPX 6-WO | VPX 10-WO | VPX 20-WO | VPX 50-WO | VPX 100-WO | VPX 200-WO | |
| Optimized WAN Capacity ^{9,10} | 2 Mbps | 6 Mbps | 10 Mbps | 20 Mbps | 50 Mbps | 100 Mbps | 200 Mbps | |
| QoS/Unaccelerated Throughput Limit | 15 Mbps | 50 Mbps | 75 Mbps | 150 Mbps | 250 Mbps | 250 Mbps | 300 Mbps | |
| Maximum HDX CCUs ¹¹ | 20 | 60 | 100 | 200 | 300 | 400 | 500 | |
| Maximum Accelerated TCP Sessions ¹² | 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 ¹³ | . | . | . | . | . | . | . | |
| Group Mode | | | | | | | | |
| Hypervisor | Citrix Hypervisor 5.5-6.2, Hyper-V 2008 R2SP1 - 2012, ESX/ESXi 4.1-6.0 | | | | | | | |
| Processor | Dual core (Quad core recommended) Intel VTx or AMD-V 64-bit x86 ¹⁴ | | | | | | | |
| Memory | 6 GB | | | | 8 GB | | 16 GB | |
| Virtual CPU | 1x Citrix Hypervisor & 2x VMware vSphere (>2.33 GHz) | 2-4x Citrix Hypervisor, Hyper-V & VMware vSphere (>2.33 GHz) | | | | | 2-4x Citrix Hypervisor, Hyper-V & VMware vSphere (~3.0 GHz) | |
| Hard Drive ¹⁵ | 100 GB | 100 GB | 250 GB | 250 GB | 250 GB | 500 GB | 500 GB | |
| Network Interface | 2 Virtual NICs | | | | | | | |

⁹ 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.

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

¹¹ User count is based upon a medium-level workload as defined by Login VSI and Virtual Desktops/Apps 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.

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

¹³ For Citrix SD-WAN appliances, the Citrix Networking Cloud Connector is delivered as a separate software appliance.

¹⁴ The VPX images are qualified to run on Intel processors only.

¹⁵ For best performance, use solid state drives or high IOPs storage devices.

| Hardware Specifications | | | | | |
|---|---|-----------------|-----------------------------------|-----------------------------------|--|
| Appliance | 5100 SE/PE | 5100 WO | 4100 SE | 4100 WO | 3000 WO |
| Storage | | | | | |
| Total Disk Space | 2 TB (HDD) | 6.8 TB (HDD) | 2 TB (HDD) | 5.2 TB (HDD) | 2.4 TB (SSD) |
| Compression History (SSD) ¹⁶ | SE: N/A PE: 2.8 TB | 4.3 TB | N/A | 2.8 TB | 1.5 TB |
| RAM | 128 GB | 128 GB | 96 GB | 96 GB | 32 GB |
| Network Interfaces¹⁷ | | | | | |
| 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 |
| Non Fail-to-wire | 4 x 10G SFP+ | 4 x 10G/1G SFP+ | 4 x 10G 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 |
| Mechanical | | | | | |
| Rack Units | 2U (3.5 inches/8.90cm) | | | | 1U (1.75 inches/4.45cm) |
| Rack Options | EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets | | | | |
| System Depth | 28 inches (72cm) | | | | 24 inches (63.5cm) |
| System Weight | 60 lbs (27.2 kg) | | | | 33 lbs (15 kg) |
| Shipping Dimensions | 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) | | | | 40 lbs (18.1 kg) |
| Power, Environmental, and Regulatory | | | | | |
| Power Supplies | Dual Redundant, Hot Swappable | | | | Single (Optional Dual Redundant) |
| Wattage (Max) | 1000W | | | | 450W (900W with redundant PSU) |
| Input Voltage/ Frequency Ranges | 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 | 0-16,000 ft (0-5,000 M) | | | | |
| Storage Temperature | 14F to 140F (-10C to 60C) | | | | |
| Allowed Relative Humidity | 20%-80%, Non-condensing | | | | 5%-95%, Non-condensing |
| Safety Certifications | CSA | | | | UL, TUV-C |
| Electromagnetic Emissions, Safety & Environmental | FCC (Part 15 Class A), CCC, KCC, NOM, CITC, EAC, DoC, CE, VCCI, RCM | | | | |
| Environmental Compliance | ROHS, WEEE | | | | |
| Citrix Compliance Regulatory Model | 2U1P1D | 2U1P1D | 2U1P1B | 2U1P1B | NS 6xSFP 6xCU |

¹⁶ Models using HDD (Hard Disk Drive) and SSD (Solid State Drive) are indicate accordingly.

¹⁷ Published Ethernet interfaces compliant per IEEE802.3-2002/2005/2008/2012.

| Hardware Specifications | | | | | |
|---|---|--|---|--|--|
| Appliance | 2100 SE/PE | 2000 WO | 1100 SE/PE | 1000 SE/PE/WO | 800 WO |
| Storage | | | | | |
| Total Disk Space ¹⁶ | 720 GB (SSD) | 600 GB (SSD) | 480 GB (SSD) | 300 GB (SSD) | 240 GB (SSD) |
| Compression History (SSD) | SE: N/A PE: 480 GB | 275 GB | SE: N/A PE: 148 GB | 148 GB | 80 GB |
| RAM | 32 GB | 32 GB | 24 GB | 24 GB | 8 GB |
| Network Interfaces¹⁷ | | | | | |
| Fail-to-wire | 4 x 1000Base-TX | 4 x 1000Base-TX | 4x 10/100/1000Base-TX | 4 x 1000Base-TX | 4 x 1000Base-TX |
| Non Fail-to-wire | 4 x 1GE SFP | 4 x 1GE SFP | 2 x 10/100/1000 Base-TX, 2 x Flexible ports (SFP or 10/100/1000 Base-TX), 2 x PoE | - | - |
| Management | 1 x 1000Base-TX | 1 x 1000Base-TX | 1 x 1000Base-TX | 2 x 1000Base-TX | 2 x 1000Base-TX |
| Mechanical | | | | | |
| 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 inches (63.5 cm) | 24 inches (63.5 cm) | 9.8 inches (25 cm) | 10.5 inches (26.7 cm) | 10.5 inches (26.7 cm) |
| System Weight | 26 lbs (11.8 kg) | 32 lbs (14.6 kg) | 4.5 lbs (2.04 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) | 9.8" x 9.8" x 1.7" (25cm x 25cm x 4.5cm) | 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) | 7.5 lbs (3.4 kg) | 14.0 lbs (6.35 kg) | 14.0 lbs (6.35 kg) |
| Power, Environmental, and Regulatory | | | | | |
| Power Supplies | Single (Optional Dual Redundant) | Single | Single (Optional Dual Redundant) | Single | Single |
| Wattage (Max) | 450W | 300W | 96.8W | 200W | 200W |
| Input Voltage/ Frequency Ranges | 100-240 VAC, 50-60 Hz | | | | |
| Input Current | 3.4-1.7A | 1.5 - 0.6A | 2A | 2.6A Max | 2.6A Max |
| Operating Temperature | 32-104 F (0-40 C) | | | | |
| Operating Altitude | 0-16,000 ft (0-5,000 M) | 0-6,500 ft (0-2,000 M) | 0-16,000 ft (0-5,000 M) | 0-6,500 ft (0-2,000 M) | 0-6,500 ft (0-2,000 M) |
| 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 | UL | UL, TUV-C | UL, TUV-C |
| Electromagnetic Emissions, Safety & Environmental | FCC (Part 15 Class A), CCC, KCC, FCC (Part 15, Class B) for 1100 SE/PE only, NOM, CITC, EAC, DoC, CE, VCCI, RCM | | | | |
| Environmental Compliance | ROHS, WEEE | | | | |
| Citrix Compliance Regulatory Model | 1U1P1A | NS 6xCu | SDW-1100 | CB504-2 | CB504-2 |

¹⁶ Models using HDD (Hard Disk Drive) and SSD (Solid State Drive) are indicate accordingly.

¹⁷ Published Ethernet interfaces compliant per IEEE802.3-2002/2005/2008/2012.

| Hardware Specifications | | | |
|---|--|--|---|
| Appliance | 410 SE | 210 SE | 210 LTE SE (R1/R2/RC) |
| Storage | | | |
| Total Disk Space ¹⁶ | 60 GB | 64 GB (mSATA) | 64 GB (mSATA) |
| Compression History | N/A | N/A | N/A |
| RAM | 8 GB | 4 GB | 4 GB |
| Network Interfaces¹⁷ | | | |
| Fail-to-wire | 6 x 1000Base-TX | 2x 10/100/1000 Ethernet w/ Bypass RJ45 | 1x 10/100/1000 Ethernet w/ Bypass RJ45 |
| Non Fail-to-wire | - | 1 x 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 | 1 x 1000Base-TX | 1x 10/100/1000 RJ45 | 1x 10/100/1000 RJ45 |
| Integrated LTE | - | - | 1 x LTE Modem ¹⁸ |
| Mechanical | | | |
| 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 | 14 inches (35 cm) | 6.9 inches | 6.9 inches |
| 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) |
| Power, Environmental, and Regulatory | | | |
| Power Supplies | 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 | 32-104 F (0-40 C) | | |
| Operating Altitude | 0-6,500 ft (0-2,000 M) | 0-16,000 ft (0-5,000 M) | 0-16,000 ft (0-5,000 M) |
| Storage Temperature | 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 |
| Electromagnetic Emissions, Safety & Environmental | FCC (Part 15 Class A), CCC, KCC, NOM, CITC, EAC, CE, VCCI, RCM, RCM, Anatel, NTRA, BIS, MOC, ICASA, BSMI | FCC (Part 15 Class B), CE, Anatel, BIS, BSMI, CCC, CITC, EAC, ICASA, KCC, RCM, VCCI | FCC (Part 15 Class A), CE, Anatel, BIS, BSMI, CCC, CITC, EAC, ICASA, KCC, RCM, VCCI, NAL,SSRC ¹⁹ |
| Environmental Compliance | ROHS, WEEE, Reach | | |
| Citrix Compliance Regulatory Model | 512-2 | SDW-210 | NS-SDW-210-LTE-R1, NS-SDW-210-LTE-R2 and NS-SDW-210-LTE-RC |

¹⁶ Models using HDD (Hard Disk Drive) and SSD (Solid State Drive) are indicate accordingly.

¹⁷ Published Ethernet interfaces compliant per IEEE802.3-2002/2005/2008/2012.

¹⁸ 210-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-RC: For China only. Bands Supported: B1, B3, B5, B7, B8, B18, B19, B21, B28, B38, B40, B41 | Please contact your Citrix sales representative for more information.

¹⁹ 210-LTE-RC: EMC Certifications include CCC, NAL, SSRC – FCC (Part 15 Class A), CE, CITC, EAC, ENACOM, IFT 210-LTE-R2: EMC certifications include – FCC (Part 15 Class A), CE,



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