

# Citrix Application Delivery Controller (ADC)

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



With a software-first approach, Citrix ADC – formerly NetScaler 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 (formerly NetScaler Gateway) | Universal License* |
|--|-----------------|------------------|------------------|---|--------------------|
| <b>Application availability</b>  |                 |                  |                  |   |                    |
| L4 load balancing and L7 content switching   | •               | •                | •                |   |                    |
| Microsoft SQL load balancing, MYSQL  | •               | •                | •                |   |                    |
| AppExpert rate controls  | •               | •                | •                |   |                    |
| IPv6 support   | •               | •                | •                |   |                    |
| Traffic domains  | •               | •                | •                |   |                    |
| Subscriber-aware traffic steering  | •               | •                | •                |   |                    |
| Global server load balancing (GSLB)  | •               | •                | •                |   |                    |
| Carrier-Grade Network Address Translation (CGNAT)  | •               | •                |                  |   |                    |
| Dynamic routing protocols  | •               | •                |                  |   |                    |
| Surge protection and priority queuing  | •               | •                |                  |   |                    |
| TriScale clustering  | •               | •                |                  |   |                    |
| <b>Application acceleration</b>  |                 |                  |                  |   |                    |
| Client and server TCP optimizations  | •               | •                | •                |   |                    |
| AppCompress  | •               | •                | •                |   |                    |
| AppCache   | •               | •                |                  |   |                    |
| <b>Application security</b>  |                 |                  |                  |   |                    |
| L4 DoS defenses  | •               | •                | •                |   |                    |
| L7 DoS defenses  | •               | •                | •                |   |                    |
| L7 rewrite and responder   | •               | •                | •                |   |                    |
| Citrix Gateway connector for Exchange ActiveSync, formerly XenMobile NetScaler connector | •               | •                |                  |   |                    |
| AAA for traffic management   | •               | •                |                  |   |                    |
| Citrix Web App Firewall, formerly NetScaler AppFirewall with XML security                | •               | •                |                  |   |                    |
| IP Reputation  | •               | •                |                  |   |                    |
| nFactor authentication   | •               | •                |                  |   |                    |
| Cloud connector for Citrix Networking, formerly NetScaler Cloud Connector                | •               |                  |                  |   |                    |
| <b>Front-end optimization**</b>  |                 |                  |                  |   |                    |
| Content layout   | •               | •                |                  |   |                    |
| Domain sharding  | •               | •                |                  |   |                    |
| Image optimization   | •               | •                |                  |   |                    |
| Style sheets and JavaScript optimization   | •               | •                |                  |   |                    |

• Standard • Option

| Feature  | Premium Edition | Advanced Edition | Standard Edition | Citrix Gateway | Universal License* |
|--|-----------------|------------------|------------------|----------------|--------------------|
| <b>TCP protocol optimization</b>   |                 |                  |                  |                |                    |
| Multi-path TCP   | •               | •                | •                |                |                    |
| BIC and cubic TCP  | •               | •                | •                |                |                    |
| <b>Simple manageability</b>  |                 |                  |                  |                |                    |
| Citrix Application Delivery Management, formerly NetScaler Management and Analytics System     | •               | •                | •                |                |                    |
| AppExpert visual policy builder  | •               | •                | •                |                |                    |
| Action Analytics   | •               | •                | •                |                |                    |
| AppExpert service callouts, templates, and visualizers   | •               | •                | •                |                |                    |
| Role-based and AAA administration  | •               | •                | •                |                |                    |
| Configuration wizards  | •               | •                | •                |                |                    |
| Native Citrix web interface  | •               | •                |                  |                |                    |
| Comtrade Management Pack for Citrix ADC  | •               |                  |                  |                |                    |
| <b>Citrix Gateway, formerly Netscaler Unified 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)  | •               | •                |                  |                |                    |
| Monitoring of Citrix Virtual Apps and Desktops, formerly XenApp/XenDesktop traffic (real time) | •               | •                |                  |                |                    |
| Monitoring of Citrix Virtual Apps and Desktops traffic (historical)                            | •               |                  |                  |                |                    |
| Monitoring of Gateway traffic (real time)  | •               | •                |                  |                |                    |
| Monitoring of Gateway traffic (historical)   | •               |                  |                  |                |                    |
| Broad client support for plugins   | •               | •                | •                | •              | •                  |
| Customizable web portal  | •               | •                | •                | •              | •                  |
| SSL VPN remote access  | •               | •                | •                | •              | •                  |
| ICA Proxy to Citrix Virtual Apps and Desktops  | •               | •                | •                | •              |                    |
| Contextual policies for Citrix Virtual Apps and Desktops (SmartAccess)                         | •               | •                | •                | •              | •                  |
| End point analysis   | •               | •                | •                | •              | •                  |
| Secure browser-only access (CVPN)  | •               | •                | •                | •              | •                  |
| Always-On  | •               | •                | •                | •              | •                  |
| Integration with Citrix StoreFront   | •               | •                | •                |                | •                  |

• Standard • Option

\*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 NetScaler ADC 11.1, the Standard and Enterprise editions include (5) Universal licenses, and the Platinum edition includes (100) Universal licenses.

\*\*An AppCache license is required for several front-end optimization features.

| Platform | MPX/SDX 26200-100G | MPX/SDX 26160-100G | MPX/SDX 26100-100G |
|----------|--------------------|--------------------|--------------------|
|----------|--------------------|--------------------|--------------------|

### Attributes

|   |   |   |   |
|---|---|---|---|
| Memory  | 256 GB  | 256 GB  | 256 GB  |
| Ethernet ports<br>(Published Ethernet interfaces compliant per IEEE802.3-2002/2005/2008/2012) | 8x 100GE QSFP28   | 8x 100GE QSFP28   | 8x 100GE QSFP28   |
| Transceivers support  | 50GE/100GE QSFP28: SR4<br>40GE QSFP+: SR4<br>25GE SFP28: SR<br>(Adapter required);<br>10GE SFP+: SR, LR<br>(Adapter required) | 50GE/100GE QSFP28: SR4<br>40GE QSFP+: SR4<br>25GE SFP28: SR<br>(Adapter required);<br>10GE SFP+: SR, LR<br>(Adapter required) | 50GE/100GE QSFP28: SR4<br>40GE QSFP+: SR4<br>25GE SFP28: SR<br>(Adapter required);<br>10GE SFP+: SR, LR<br>(Adapter required) |
| Raid support  | Yes   | Yes   | Yes   |
| Pay-As-You-Grow and Burst Pack License upgrades   |   | Upgrade option to MPX 26200-100G  | Upgrade option to MPX 26160-100G, 26200-100G  |

### Performance

|  |           |           |           |
|--|-----------|-----------|-----------|
| 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)*                                  | 125,000   | 110,000   | 66,000    |
| ECDHE transactions/sec**   | 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/<br>Maximum number of instances (on SDX models) | 115       | 70        | 20        |

### Mechanical, environmental, and regulatory

|  |  |  |  |
|--|--|--|--|
| Power supplies   | 2  | 2  | 2  |
| Input voltage and frequency ranges                                   | 100-240VAC full range,<br>50-60 Hz   | 100-240VAC full range,<br>50-60 Hz   | 100-240VAC full range,<br>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,<br>DIN 41494 SC48D rack width<br>with mounting brackets  | EIA 310-D, IEC 60297,<br>DIN 41494 SC48D rack width<br>with mounting brackets  | EIA 310-D, IEC 60297,<br>DIN 41494 SC48D rack width<br>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,<br>CSA 60950-1, 2nd Edition,<br>UL 60950-1, 2nd Edition,<br>AS/NZS 60950-1   | IEC 60950-1, 2nd Edition,<br>CSA 60950-1, 2nd Edition,<br>UL 60950-1, 2nd Edition,<br>AS/NZS 60950-1   | IEC 60950-1, 2nd Edition,<br>CSA 60950-1, 2nd Edition,<br>UL 60950-1, 2nd Edition,<br>AS/NZS 60950-1   |
| Electromagnetic emissions certifications and susceptibility standard | US (FCC (Part 15 Class A)),<br>Europe (CE (EN 55032/<br>55024)), Australia (RCM), Japan<br>(VCCI), Korea (KCC), Taiwan<br>(BSMI), China (CCC), India (BIS),<br>Russia (CUTR), Russia (EAC),<br>Saudi Arabia (CITC), Brazil<br>(Anatel), South Africa (ICASA),<br>Mexico (NOM), Egypt (NTRA),<br>Israel (MoC) | US (FCC (Part 15 Class A)),<br>Europe (CE (EN 55032/<br>55024)), Australia (RCM), Japan<br>(VCCI), Korea (KCC), Taiwan<br>(BSMI), China (CCC), India (BIS),<br>Russia (CUTR), Russia (EAC),<br>Saudi Arabia (CITC), Brazil<br>(Anatel), South Africa (ICASA),<br>Mexico (NOM), Egypt (NTRA),<br>Israel (MoC) | US (FCC (Part 15 Class A)),<br>Europe (CE (EN 55032/<br>55024)), Australia (RCM), Japan<br>(VCCI), Korea (KCC), Taiwan<br>(BSMI), China (CCC), India (BIS),<br>Russia (CUTR), Russia (EAC),<br>Saudi Arabia (CITC), Brazil<br>(Anatel), South Africa (ICASA),<br>Mexico (NOM), Egypt (NTRA),<br>Israel (MoC) |
| Regulatory compliance  | RoHS, WEEE, REACH  | RoHS, WEEE, REACH  | RoHS, WEEE, REACH  |
| Citrix compliance regulatory model                                   | 2U1P1D   | 2U1P1D   | 2U1P1D   |

\*Performance varies depending on ciphers deployed. Contact your Citrix sales representative for details.

\*\*Hybrid SSL optimization (TLS1-ECDHE-RSA-AES128-SHA 256).

| Platform | MPX 26200-50S | MPX 26160-50S | MPX 26100-50S |
|----------|---------------|---------------|---------------|
|----------|---------------|---------------|---------------|

### Attributes

|   |   |   |   |
|---|---|---|---|
| Memory  | 256 GB  | 256 GB  | 256 GB  |
| Ethernet ports<br>(Published Ethernet interfaces compliant per IEEE802.3-2002/2005/2008/2012) | 4x50GE QSFP28<br>16x25GE SFP28  | 4x50GE QSFP28<br>16x25GE SFP28  | 4x50GE QSFP28<br>16x25GE SFP28  |
| Transceivers support  | 50GE QSFP28 port-50GE/ 100GE QSFP28: SR4<br>40GE QSFP+: SR4<br>25GE SFP28: SR (Adapter required)<br>10GE SFP+: SR, LR (Adapter required)<br>25GE SFP28 port-25GE SFP28: SR<br>10GE SFP+: SR, LR | 50GE QSFP28 port-50GE/ 100GE QSFP28: SR4<br>40GE QSFP+: SR4<br>25GE SFP28: SR (Adapter required)<br>10GE SFP+: SR, LR (Adapter required)<br>25GE SFP28 port-25GE SFP28: SR<br>10GE SFP+: SR, LR | 50GE QSFP28 port-50GE/ 100GE QSFP28: SR4<br>40GE QSFP+: SR4<br>25GE SFP28: SR (Adapter required)<br>10GE SFP+: SR, LR (Adapter required)<br>25GE SFP28 port-25GE SFP28: SR<br>10GE SFP+: SR, LR |
| Raid support  | Yes   | Yes   | Yes   |
| Pay-As-You-Grow and Burst Pack License upgrades   |   | Upgrade option to MPX 26200-50S   | Upgrade option to MPX 26160-50S, 26200-50S  |

### Performance

|  |           |           |           |
|--|-----------|-----------|-----------|
| 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)*                                  | 600,000   | 460,000   | 280,000   |
| ECDHE transactions/sec**   | 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/<br>Maximum number of instances (on SDX models) | N/A       | N/A       | N/A       |

### Mechanical, environmental, and regulatory

|  |  |   |   |
|--|--|---|---|
| Power supplies   | 2  | 2   | 2   |
| Input voltage and frequency ranges                                   | 100-240VAC full range,<br>50-60 Hz   | 100-240VAC full range,<br>50-60 Hz  | 100-240VAC full range,<br>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,<br>DIN 41494 SC48D rack width<br>with mounting brackets  | EIA 310-D, IEC 60297,<br>DIN 41494 SC48D rack width<br>with mounting brackets   | EIA 310-D, IEC 60297,<br>DIN 41494 SC48D rack width<br>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,<br>CSA 60950-1, 2nd Edition,<br>UL 60950-1, 2nd Edition,<br>AS/NZS 60950-1   | IEC 60950-1, 2nd Edition,<br>CSA 60950-1, 2nd Edition,<br>UL 60950-1, 2nd Edition,<br>AS/NZS 60950-1  | IEC 60950-1, 2nd Edition,<br>CSA 60950-1, 2nd Edition,<br>UL 60950-1, 2nd Edition,<br>AS/NZS 60950-1  |
| Electromagnetic emissions certifications and susceptibility standard | US (FCC (Part 15 Class A)),<br>Europe (CE (EN 55032/<br>55024)), Australia (RCM), Japan<br>(VCCI), Korea (KCC), Taiwan<br>(BSMI), China (CCC), India (BIS),<br>Russia (CUTR), Russia (EAC),<br>Saudi Arabia (CITC), Brazil<br>(Anatel), South Africa (ICASA),<br>Mexico (NOM), Egypt (NTRA),<br>Israel (MoC) | US (FCC (Part 15 Class A)),<br>Europe (CE (EN55032/<br>55024)), Australia (RCM), Japan<br>(VCCI), Korea (KCC), Taiwan<br>(BSMI), China (CCC), India (BIS),<br>Russia (CUTR), Russia (EAC),<br>Saudi Arabia (CITC), Brazil<br>(Anatel), South Africa (ICASA),<br>Mexico (NOM), Egypt (NTRA),<br>Israel (MoC) | US (FCC (Part 15 Class A)),<br>Europe (CE (EN55032/<br>55024)), Australia (RCM), Japan<br>(VCCI), Korea (KCC), Taiwan<br>(BSMI), China (CCC), India (BIS),<br>Russia (CUTR), Russia (EAC),<br>Saudi Arabia (CITC), Brazil<br>(Anatel), South Africa (ICASA),<br>Mexico (NOM), Egypt (NTRA),<br>Israel (MoC) |
| Regulatory compliance  | RoHS, WEEE, REACH  | RoHS, WEEE, REACH   | RoHS, WEEE, REACH   |
| Citrix compliance regulatory model                                   | 2U1P2A   | 2U1P2A  | 2U1P2A  |

\*Performance varies depending on ciphers deployed. Contact your Citrix sales representative for details.

\*\*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<br>(Published Ethernet interfaces compliant per IEEE802.3-2002/2005/2008/2012) | 8x 100GE QSFP28   | 8x 100GE QSFP28   | 8x 100GE QSFP28   |
| Transceivers support  | 50GE/100GE QSFP28: SR4<br>40GE QSFP+: SR4<br>25GE SFP28: SR<br>(Adapter required);<br>10GE SFP+: SR, LR<br>(Adapter required)   | 50GE/100GE QSFP28: SR4<br>40GE QSFP+: SR4<br>25GE SFP28: SR<br>(Adapter required);<br>10GE SFP+: SR, LR<br>(Adapter required)   | 50GE/100GE QSFP28: SR4<br>40GE QSFP+: SR4<br>25GE SFP28: SR<br>(Adapter required);<br>10GE SFP+: SR, LR<br>(Adapter required)   |
| Raid support  | Yes   | Yes   | Yes   |
| Pay-As-You-Grow and Burst Pack License upgrades   |   | Upgrade option to MPX 26200T-100G   | Upgrade option to MPX 26160T-100G, 26200T-100G  |
| <b>Performance</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)*   | N/A   | N/A   | N/A   |
| ECDHE transactions/sec**  | 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/<br>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,<br>50-60 Hz  | 100-240VAC full range,<br>50-60 Hz  | 100-240VAC full range,<br>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,<br>DIN 41494 SC48D rack width<br>with mounting brackets   | EIA 310-D, IEC 60297,<br>DIN 41494 SC48D rack width<br>with mounting brackets   | EIA 310-D, IEC 60297,<br>DIN 41494 SC48D rack width<br>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,<br>CSA 60950-1, 2nd Edition,<br>UL 60950-1, 2nd Edition,<br>AS/NZS 60950-1  | IEC 60950-1, 2nd Edition,<br>CSA 60950-1, 2nd Edition,<br>UL 60950-1, 2nd Edition,<br>AS/NZS 60950-1  | IEC 60950-1, 2nd Edition,<br>CSA 60950-1, 2nd Edition,<br>UL 60950-1, 2nd Edition,<br>AS/NZS 60950-1  |
| Electromagnetic emissions certifications and susceptibility standard                          | US (FCC (Part 15 Class A)),<br>Europe (CE (EN55032/<br>55024)), Australia (RCM), Japan<br>(VCCI), Korea (KCC), Taiwan<br>(BSMI), China (CCC), India (BIS),<br>Russia (CUTR), Russia (EAC),<br>Saudi Arabia (CITC), Brazil<br>(Anatel), South Africa (ICASA),<br>Mexico (NOM), Egypt (NTRA),<br>Israel (MoC) | US (FCC (Part 15 Class A)),<br>Europe (CE (EN55032/<br>55024)), Australia (RCM), Japan<br>(VCCI), Korea (KCC), Taiwan<br>(BSMI), China (CCC), India (BIS),<br>Russia (CUTR), Russia (EAC),<br>Saudi Arabia (CITC), Brazil<br>(Anatel), South Africa (ICASA),<br>Mexico (NOM), Egypt (NTRA),<br>Israel (MoC) | US (FCC (Part 15 Class A)),<br>Europe (CE (EN55032/<br>55024)), Australia (RCM), Japan<br>(VCCI), Korea (KCC), Taiwan<br>(BSMI), China (CCC), India (BIS),<br>Russia (CUTR), Russia (EAC),<br>Saudi Arabia (CITC), Brazil<br>(Anatel), South Africa (ICASA),<br>Mexico (NOM), Egypt (NTRA),<br>Israel (MoC) |
| Regulatory compliance   | RoHS, WEEE, REACH   | RoHS, WEEE, REACH   | RoHS, WEEE, REACH   |
| Citrix compliance regulatory model  | 2U1P1D  | 2U1P1D  | 2U1P1D  |

\*Performance varies depending on ciphers deployed. Contact your Citrix sales representative for details.

\*\*Hybrid SSL optimization (TLS1-ECDHE-RSA-AES128-SHA 256).

| Platform | MPX 26200 | MPX 26160 | MPX 26100 |
|----------|-----------|-----------|-----------|
|----------|-----------|-----------|-----------|

### Attributes

|   |  |  |  |
|---|--|--|--|
| Memory  | 256GB  | 256GB  | 256GB  |
| Ethernet ports<br>(Published Ethernet interfaces compliant per IEEE802.3-2002/2005/2008/2012) | 8x50GE QSFP28; 16x25G SFP28  | 8x50GE QSFP28; 16x25G SFP28  | 8x50GE QSFP28; 16x25G SFP28  |
| Transceivers support  | 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 | 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 | 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 and Burst Pack License upgrades   |  | Upgrade option to MPX 26200  | Upgrade option to MPX 26160, 26200   |

### Performance

|  |           |           |           |
|--|-----------|-----------|-----------|
| 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)*                              | 310,000   | 220,000   | 140,000   |
| ECDHE transactions/sec**   | 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) | N/A       | N/A       | N/A       |

### 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  | EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets  | EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets  |
| Depth  | 28in / 71.2 cm   | 28in / 71.2 cm   | 28in / 71.2 cm   |
| 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  | IEC 60950-1, 2nd Edition, CSA 60950-1, 2nd Edition, UL 60950-1, 2nd Edition, AS/NZS 60950-1  | IEC 60950-1, 2nd Edition, CSA 60950-1, 2nd Edition, UL 60950-1, 2nd Edition, AS/NZS 60950-1  |
| Electromagnetic emissions certifications and susceptibility standard | US (FCC (Part 15 Class A)), Europe (CE (EN55032/55024)), 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) | US (FCC (Part 15 Class A)), Europe (CE (EN55032/55024)), 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) | US (FCC (Part 15 Class A)), Europe (CE (EN55032/55024)), 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   |

\*Performance varies depending on ciphers deployed. Contact your Citrix sales representative for details.

\*\*Hybrid SSL optimization (TLS1-ECDHE-RSA-AES128-SHA 256).

| Platform  | MPX 25160T  | MPX 25100T  | MPX 25200TA   | MPX 25160TA   |
|---|---|---|---|---|
| <b>Attributes</b>   |   |   |   |   |
| Memory  | 128 GB  | 128 GB  | 128 GB  | 128 GB  |
| Ethernet ports<br>(Published Ethernet interfaces compliant per IEEE802.3-2002/2005/2008/2012) | 32x 10GE SFP+   | 32x 10GE SFP+   | 8x 40GE QSFP+   | 8x 40GE QSFP+   |
| Transceivers support  | 10GE SFP+; 1G SFP-CU  | 10GE SFP+; 1G SFP-CU  | 40GE QSFP+; SR4   | 40GE QSFP+; SR4   |
| Raid support  | Yes   | Yes   | Yes   | Yes   |
| Pay-As-You-Grow and Burst Pack License upgrades   |   | Upgrade option to MPX 25160T  |   | Upgrade option to MPX 25200T  |
| <b>Performance</b>  |   |   |   |   |
| System throughput, Gbps (L7 throughput)   | 160   | 100   | 200   | 160   |
| L7 HTTP requests/sec  | 4,600,000   | 3,200,000   | 5,200,000   | 4,600,000   |
| SSL transactions/sec (2K key certificates)*   | 2,000   | 1,400   | 2,000   | 2,000   |
| ECDHE transactions/sec**  | N/A   | N/A   | N/A   | N/A   |
| SSL throughput, Gbps  | 21  | 15  | 30  | 21  |
| Compression throughput, Gbps  | 14  | 10  | 17  | 14  |
| ICA Proxy/SSL VPN concurrent users  | 35,000  | 35,000  | 35,000  | 35,000  |
| Number of instances included/<br>Maximum number of instances (on SDX models)                  | N/A   | N/A   | N/A   | N/A   |
| <b>Mechanical, environmental, and regulatory</b>  |   |   |   |   |
| Power supplies  | 2   | 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   | 100-240VAC full range, 50-60 Hz   |
| Optional DC power supply  | Yes   | Yes   | Yes   | Yes   |
| Max power supply  | 1000W   | 1000W   | 1000W   | 1000W   |
| Typical/max power consumption   | 594W/717W   | 594W/717W   | 594W/717W   | 594W/717W   |
| Weight, lbs   | 60  | 60  | 60  | 60  |
| Height  | 2U  | 2U  | 2U  | 2U  |
| Width   | EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets | EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets | EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets | EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets |
| Depth   | 72 cm / 28.25 in  | 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)   | 0-45°C (32-113°F)   |
| Allowed relative humidity   | 5%-95%, non-condensing  | 5%-95%, non-condensing  | 5%-95%, non-condensing  | 5%-95%, non-condensing  |
| Safety certifications   | CSA   | CSA   | CSA   | CSA   |
| Electromagnetic emissions certifications and susceptibility standard                          | FCC (Part 15 Class A), DoC, CE, VCCI, CNS, AN/NES                       | FCC (Part 15 Class A), DoC, CE, VCCI, CNS, AN/NES                       | FCC (Part 15 Class A), DoC, CE, VCCI, CNS, AN/NES                       | FCC (Part 15 Class A), DoC, CE, VCCI, CNS, AN/NES                       |
| Regulatory compliance   | RoHS, WEEE  | RoHS, WEEE  | RoHS, WEEE  | RoHS, WEEE  |
| Citrix compliance regulatory model  | 2U1P1A  | 2U1P1A  | 2U1P1A  | 2U1P1A  |

\*Performance varies depending on ciphers deployed. Contact your Citrix sales representative for details.

\*\*Hybrid SSL optimization (TLS1-ECDHE-RSA-AES128-SHA 256).

| Platform  | MPX 25100TA   | MPX/SDX 25200A  | MPX/SDX 25160A  | MPX/SDX 25100A  |
|---|---|---|---|---|
| <b>Attributes</b>   |   |   |   |   |
| Memory  | 128 GB  | 256 GB  | 256 GB  | 256 GB  |
| Ethernet ports<br>(Published Ethernet interfaces compliant per IEEE802.3-2002/2005/2008/2012) | 8x 40GE QSFP+   | 8x 40GE QSFP+   | 8x 40GE QSFP+   | 8x 40GE QSFP+   |
| Transceivers support  | 40GE QSFP+: SR4,  | 40GE QSFP+: SR4,  | 40GE QSFP+: SR4,  | 40GE QSFP+: SR4,  |
| Raid support  | Yes   | Yes   | Yes   | Yes   |
| Pay-As-You-Grow and Burst Pack License upgrades   | Upgrade option to MPX 25160TA, 25200TA                                  |   | Upgrade option to MPX/SDX 25200A  | Upgrade option to MPX/SDX 25160A, 25200A                                |
| <b>Performance</b>  |   |   |   |   |
| System throughput, Gbps (L7 throughput)   | 100   | 200   | 160   | 100   |
| L7 HTTP requests/sec  | 3,200,000   | 5,200,000   | 4,000,000   | 3,000,000   |
| SSL transactions/sec (2K key certificates)*   | 1,400   | 69,000  | 69,000  | 43,000  |
| ECDHE transactions/sec**  | N/A   | 56,000  | 47,000  | 29,000  |
| SSL throughput, Gbps  | 15  | 46  | 42  | 34  |
| Compression throughput, Gbps  | 10  | 17  | 14  | 10  |
| ICA Proxy/SSL VPN concurrent users  | 35,000  | 20,000  | 20,000  | 20,000  |
| Number of instances included/<br>Maximum number of instances (on SDX models)                  | N/A   | 115/115   | 70/115  | 20/115  |
| <b>Mechanical, environmental, and regulatory</b>  |   |   |   |   |
| Power supplies  | 2   | 2   | 2   | 2   |
| Input voltage and frequency ranges  | 100-240VAC full range, 50-60 Hz   | 100-240VAC full range, 47-63 Hz   | 100-240VAC full range, 47-63 Hz   | 100-240VAC full range, 47-63 Hz   |
| Optional DC power supply  | Yes   | Yes   | Yes   | Yes   |
| Max power supply  | 1000W   | 822W  | 822W  | 822W  |
| Typical/max power consumption   | 594W/717W   | 300W 1024 BTU/Hr  | 300W 1024 BTU/Hr  | 300W 1024 BTU/Hr  |
| Weight, lbs   | 60  | 60  | 60  | 60  |
| Height  | 2U  | 2U  | 2U  | 2U  |
| Width   | EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets | EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets | EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets | EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets |
| Depth   | 72 cm / 28 1/4 in   | 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)   | 0-45°C (32-113°F)   |
| Allowed relative humidity   | 5%-95%, non-condensing  | 5%-95%, non-condensing  | 5%-95%, non-condensing  | 5%-95%, non-condensing  |
| Safety certifications   | CSA   | CSA   | CSA   | CSA   |
| Electromagnetic emissions certifications and susceptibility standard                          | FCC (Part 15 Class A), DoC, CE, VCCI, CNS, AN/NES                       | FCC (Part 15 Class A), DoC, CE, VCCI, CNS, AN/NES                       | FCC (Part 15 Class A), DoC, CE, VCCI, CNS, AN/NES                       | FCC (Part 15 Class A), DoC, CE, VCCI, CNS, AN/NES                       |
| Regulatory compliance   | RoHS, WEEE  | RoHS, WEEE  | RoHS, WEEE  | RoHS, WEEE  |
| Citrix compliance regulatory model  | 2U1P1A  | 2U1P1A  | 2U1P1A  | 2U1P1A  |

\*Performance varies depending on ciphers deployed. Contact your Citrix sales representative for details.

\*\*Hybrid SSL optimization (TLS1-ECDHE-RSA-AES128-SHA 256).



| Platform | MPX/SDX 25200-40G | MPX/SDX 25160-40G | MPX/SDX 25100-40G | MPX/SDX 24150 |
|----------|-------------------|-------------------|-------------------|---------------|
|----------|-------------------|-------------------|-------------------|---------------|

**Attributes**

|   |                                    |                                     |  |   |
|---|------------------------------------|-------------------------------------|--|---|
| Memory  | 256 GB                             | 256 GB                              | 256 GB   | 256 GB  |
| Ethernet ports<br>(Published Ethernet interfaces compliant per IEEE802.3-2002/2005/2008/2012) | 4x 40GE QSFP+; 16x 10GE SFP+       | 4x 40GE QSFP+; 16x 10GE SFP+        | 4x 40GE QSFP+; 16x 10GE SFP+                   | 24x 10GE SFP+ and 12XGE SFP (fiber or copper) |
| Transceivers support  | 40GE QSFP+; SR4; 10GE SFP+; SR, LR | 40GE QSFP+; SR4; 10GE SFP+; SR, LR  | 40GE QSFP+; SR4; 10GE SFP+; SR, LR             | 10GE SFP+; 1GE SFP; SR, LR, CU                |
| Raid support  | Yes                                | Yes                                 | Yes  | Yes   |
| Pay-As-You-Grow and Burst Pack License upgrades   |                                    | Upgrade option to MPX/SDX 25200-40G | Upgrade option to MPX/SDX 25160-40G, 25200-40G |   |

**Performance**

|  |              |              |              |               |
|--|--------------|--------------|--------------|---------------|
| System throughput, Gbps (L7 throughput)                                      | 200          | 160          | 100          | 150           |
| L7 HTTP requests/sec   | 5,000,000    | 4,000,000    | 3,000,000    | 5,800,000     |
| SSL transactions/sec (2K key certificates)*                                  | 69,000       | 69,000       | 43,000       | 135,000       |
| ECDHE transactions/sec**   | 56,000/7,000 | 47,000/6,500 | 29,000/5,000 | 40,000/16,500 |
| SSL throughput, Gbps   | 46           | 42           | 34           | 44            |
| Compression throughput, Gbps   | 17           | 14           | 10           | 14.6          |
| ICA Proxy/SSL VPN concurrent users   | 20,000       | 20,000       | 20,000       | 35,000        |
| Number of instances included/<br>Maximum number of instances (on SDX models) | 115/115      | 70/115       | 20/115       | 80/80         |

**Mechanical, environmental, and regulatory**

|  |   |   |   |   |
|--|---|---|---|---|
| Power supplies   | 2   | 2   | 2   | 4   |
| Input voltage and frequency ranges                                   | 100-240VAC full range, 47-63 Hz   | 100-240VAC full range, 47-63 Hz   | 100-240VAC full range, 47-63 Hz   | 100-240VAC full range, 47-63 Hz   |
| Optional DC power supply   | Yes   | Yes   | Yes   | Yes   |
| Max power supply   | 822W  | 822W  | 822W  | 1100W 3753 BTU/Hr   |
| Typical/max power consumption  | 300W 1024 BTU/Hr  | 300W 1024 BTU/Hr  | 300W 1024 BTU/Hr  | 300W 1024 BTU/Hr  |
| Weight, lbs  | 60  | 60  | 60  | 58  |
| Height   | 2U  | 2U  | 2U  | 2U  |
| Width  | EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets | EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets | EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets | EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets |
| Depth  | 71.1 cm / 28 in   | 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)   | 0-45°C (32-113°F)   |
| Allowed relative humidity  | 5%-95%, non-condensing  | 5%-95%, non-condensing  | 5%-95%, non-condensing  | 5%-95%, non-condensing  |
| Safety certifications  | CSA   | CSA   | CSA   | CSA   |
| Electromagnetic emissions certifications and susceptibility standard | FCC (Part 15 Class A), DoC, CE, VCCI, CNS, AN/NES                       | FCC (Part 15 Class A), DoC, CE, VCCI, CNS, AN/NES                       | FCC (Part 15 Class A), DoC, CE, VCCI, CNS, AN/NES                       | FCC (Part 15 Class A), DoC, CE, VCCI, CNS, AN/NES                       |
| Regulatory compliance  | RoHS, WEEE  | RoHS, WEEE  | RoHS, WEEE  | RoHS, WEEE  |
| Citrix compliance regulatory model                                   | 2U1P1A  | 2U1P1A  | 2U1P1A  | 2U1P1A  |

\*Performance varies depending on ciphers deployed. Contact your Citrix sales representative for details.

\*\*Maximum ECDHE key transaction per second (TLS1-ECDHE-RSA-AES128-SHA 256)/Accelerated transactions only

| Platform  | MPX/SDX 24100   | MPX/SDX 22120   | MPX/SDX 22100   | MPX/SDX 22080   |
|---|---|---|---|---|
| <b>Attributes</b>   |   |   |   |   |
| Memory  | 256 GB  | 256 GB  | 256 GB  | 256 GB  |
| Ethernet ports<br>(Published Ethernet interfaces compliant per IEEE802.3-2002/2005/2008/2012) | 24x 10GE SFP+ and 12XGE SFP (fiber or copper)                           | 24x 10GBASE-X SFP+ OR (for NEBS models)<br>24x 10GBASE-X SFP+<br>12x 1000BASE-X SFP (fiber or copper) | 24x 10GBASE-X SFP+ OR (for NEBS models)<br>24x 10GBASE-X SFP+<br>12x 1000BASE-X SFP (fiber or copper) | 24x 10GBASE-X SFP+ OR (for NEBS models)<br>24x 10GBASE-X SFP+<br>12x 1000BASE-X SFP (fiber or copper) |
| Transceivers support  | 10GE SFP+: SR; 1GE SFP: SR, LR, CU                                      | 10GE SFP+: SR, LR; 1GE SFP: SX, LX  | 10GE SFP+: SR, LR   | 10GE SFP+: SR, LR   |
| Raid support  | Yes   | Yes   | Yes   | Yes   |
| Pay-As-You-Grow and Burst Pack License upgrades   | Upgrade option to MPX/SDX 24150   |   | Upgrade option to MPX/SDX 22120   | Upgrade option to MPX/SDX 22100 and 22120   |
| <b>Performance</b>  |   |   |   |   |
| System throughput, Gbps (L7 throughput)   | 100   | 120   | 100   | 80  |
| L7 HTTP requests/sec  | 3,500,000   | 4,700,000/3,700,000   | 4,500,000/3,700,000   | 4,000,000/3,700,000   |
| SSL transactions/sec (2K key certificates)*   | 100,000   | 560,000<br>155,000 (NEBS)   | 460,000<br>130,000 (NEBS)   | 340,000<br>80,000 (NEBS)  |
| ECDHE transactions/sec**  | 32,000/12,380   | 85,000/65,000   | 73,000/49,000   | 62,000  |
| SSL throughput, Gbps  | 40  | 75/56.42 (NEBS)   | 65/56.35 (NEBS)   | 55.30 (NEBS)  |
| Compression throughput, Gbps  | 10  | 14/12.8   | 14/12.8   | 12.5  |
| ICA Proxy/SSL VPN concurrent users  | 35,000  | 35,000  | 35,000  | 35,000  |
| Number of instances included/<br>Maximum number of instances (on SDX models)                  | 40/80   | 80/80   | 80/80   | 80/80   |
| <b>Mechanical, environmental, and regulatory</b>  |   |   |   |   |
| Power supplies  | 4   | 4   | 4   | 4   |
| Input voltage and frequency ranges  | 100-240VAC full range, 47-63 Hz   | 100-240VAC full range, 47-63 Hz   | 100-240VAC full range, 47-63 Hz   | 100-240VAC full range, 47-63 Hz   |
| Optional DC power supply  | Yes   | Yes   | Yes   | Yes   |
| Max power supply  | 1100W 3753 BTU/Hr   | 1100W 3753 BTU/Hr   | 1100W 3753 BTU/Hr   | 1100W 3753 BTU/Hr   |
| Typical/max power consumption   | 850W 2900 BTU/Hr  | 850W 2900 BTU/Hr  | 850W 2900 BTU/Hr  | 850W 2900 BTU/Hr  |
| Weight, lbs   | 58  | 58  | 58  | 58  |
| Height  | 2U  | 2U  | 2U  | 2U  |
| Width   | EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets | EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets                               | EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets                               | EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets                               |
| Depth   | 71.1 cm / 28 in   | 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)   | 0-45°C (32-113°F)   |
| Allowed relative humidity   | 5%-95%, non-condensing  | 5%-95%, non-condensing  | 5%-95%, non-condensing  | 5%-95%, non-condensing  |
| Safety certifications   | CSA   | CSA   | CSA   | CSA   |
| Electromagnetic emissions certifications and susceptibility standard                          | FCC (Part 15 Class A), DoC, CE, VCCI, CNS, AN/NES                       | FCC (Part 15 Class A), DoC, CE, VCCI, CNS, AN/NES   | FCC (Part 15 Class A), DoC, CE, VCCI, CNS, AN/NES   | FCC (Part 15 Class A), DoC, CE, VCCI, CNS, AN/NES   |
| Regulatory compliance   | RoHS, WEEE; NEBS Level 3 available                                      | RoHS, WEEE; NEBS Level 3 available  | RoHS, WEEE; NEBS Level 3 available  | RoHS, WEEE; NEBS Level 3 available  |
| Citrix compliance regulatory model  | 24x 10GE SFP+   | 24x 10GE SFP+   | 24x 10GE SFP+   | 24x 10GE SFP+   |

\*Performance varies depending on ciphers deployed. Contact your Citrix sales representative for details.

\*\*Maximum ECDHE key transaction per second (TLS1-ECDHE-RSA-AES128-SHA 256)/Accelerated transactions only

| Platform | MPX/SDX 22060 | MPX/SDX 22040 | MPX/SDX 15100-50G | MPX/SDX 15080-50G |
|----------|---------------|---------------|-------------------|-------------------|
|----------|---------------|---------------|-------------------|-------------------|

### Attributes

|   |   |   |  |  |
|---|---|---|--|--|
| Memory  | 256GB   | 256GB   | 128 GB   | 128 GB   |
| Ethernet ports<br>(Published Ethernet interfaces compliant per IEEE802.3-2002/2005/2008/2012) | 24x 10GBASE-X SFP+ OR<br>(for NEBS models)<br>24x 10GBASE-X SFP+<br>12x 1000BASE-X SFP<br>(fiber or copper) | 24x 10GBASE-X SFP+ OR<br>(for NEBS models)<br>24x 10GBASE-X SFP+<br>12x 1000BASE-X SFP<br>(fiber or copper) | 4x 50GE QSFP28;<br>8x 10GE SFP+  | 4x 50GE QSFP28;<br>8x 10GE SFP+  |
| Transceivers support  | 10GE SFP+: SR, LR   | 10GE SFP+: SR, LR   | 50GE QSFP28 port: 50GE/<br>100GE QSFP28: SR4;<br>40GE QSFP+: SR4 25GE<br>SFP28: SR (Adapter<br>required) 10GE SFP+: SR,<br>LR (Adapter required)<br>10GE SFP+ port: 10GE<br>SFP+: SR, LR | 50GE QSFP28 port: 50GE/<br>100GE QSFP28: SR4;<br>40GE QSFP+: SR4 25GE<br>SFP28: SR (Adapter<br>required) 10GE SFP+: SR,<br>LR (Adapter required)<br>10GE SFP+ port: 10GE<br>SFP+: SR, LR |
| Raid support  | Yes   | Yes   | Yes  | Yes  |
| Pay-As-You-Grow and Burst Pack License upgrades   | Upgrade option to MPX/SDX<br>22080, 22100, and 22120  | Upgrade option to MPX/<br>SDX 22060, 22080, 22100,<br>and 22120   |  | Upgrade option to MPX<br>15100-50G   |

### Performance

|  |                          |                          |           |           |
|--|--------------------------|--------------------------|-----------|-----------|
| System throughput, Gbps (L7 throughput)                                  | 60                       | 40                       | 100       | 80        |
| L7 HTTP requests/sec   | 3,500,000                | 2,600,000                | 4,000,000 | 3,900,000 |
| SSL transactions/sec (2K key certificates)*                              | 225,000<br>65,000 (NEBS) | 120,000<br>40,000 (NEBS) | 140,000   | 127,000   |
| ECDHE transactions/sec**   | 44,000/24,700            | 28,000/12,300            | 60,000    | 55,000    |
| SSL throughput, Gbps   | 45<br>22 (NEBS)          | 35<br>18 (NEBS)          | 70        | 60        |
| Compression throughput, Gbps   | 11                       | 8                        | 10        | 9.3       |
| ICA Proxy/SSL VPN concurrent users                                       | 35,000                   | 35,000                   | 20,000    | 20,000    |
| Number of instances included/Maximum number of instances (on SDX models) | 80/80                    | 20/80                    | 50        | 45        |

### Mechanical, environmental, and regulatory

|  |   |   |  |  |
|--|---|---|--|--|
| Power supplies   | 4   | 4   | 2  | 2  |
| Input voltage and frequency ranges                                   | 100-240VAC full range,<br>47-63 Hz  | 100-240VAC full range,<br>47-63 Hz  | 100-240VAC full range,<br>50-60 Hz   | 100-240VAC full range,<br>50-60 Hz   |
| Optional DC power supply   | Yes   | Yes   | Yes  | Yes  |
| Max power supply   | 1000W 3753 BTU/Hr   | 1000W 3753 BTU/Hr   | 522W   | 522W   |
| Typical/max power consumption  | 850W 2900 BTU/Hr  | 850W 2900 BTU/Hr  | 300W 1024 BTU/Hr   | 300W 1024 BTU/Hr   |
| Weight lbs   | 58  | 58  | 39   | 39   |
| Height   | 2U  | 2U  | 2U   | 2U   |
| Width  | EIA 310-D, IEC 60297, DIN<br>41494 SC48D rack width<br>with mounting brackets | EIA 310-D, IEC 60297, DIN<br>41494 SC48D rack width<br>with mounting brackets | EIA 310-D, IEC 60297, DIN<br>41494 SC48D rack width<br>with mounting brackets  | EIA 310-D, IEC 60297, DIN<br>41494 SC48D rack width<br>with mounting brackets  |
| Depth  | 71.1 cm / 28 in   | 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)  | 0 - 45°C (32 - 113°F)  |
| Allowed relative humidity  | 5%-95%, non-condensing  | 5%-95%, non-condensing  | 5%-95%, non-condensing   | 5%-95%, non-condensing   |
| Safety certifications  | CSA   | CSA   | IEC 60950-1, 2nd Edition,<br>CSA 60950-1, 2nd Edition,<br>UL 60950-1, 2nd Edition, AS/<br>NZS 60950-1  | IEC 60950-1, 2nd Edition,<br>CSA 60950-1, 2nd Edition,<br>UL 60950-1, 2nd Edition, AS/<br>NZS 60950-1  |
| Electromagnetic emissions certifications and susceptibility standard | FCC (Part 15 Class A), DoC,<br>CE, VCCI, CNS, AN/NES                          | FCC (Part 15 Class A), DoC,<br>CE, VCCI, CNS, AN/NES                          | US (FCC (Part 15<br>Class A)), Europe (CE<br>(EN55032/55024)), Australia<br>(RCM), Japan (VCCI), Korea<br>(KCC), Taiwan (BSMI), China<br>(CCC), India (BIS), Russia<br>(CUTR) Russia (EAC), Saudi<br>Arabia (CITC), Brazil (Anatel),<br>South Africa (ICASA), Mexico<br>(NOM), Egypt (NTRA), Israel<br>(MoC) | US (FCC (Part 15<br>Class A)), Europe (CE<br>(EN55032/55024)), Australia<br>(RCM), Japan (VCCI), Korea<br>(KCC), Taiwan (BSMI), China<br>(CCC), India (BIS), Russia<br>(CUTR) Russia (EAC), Saudi<br>Arabia (CITC), Brazil (Anatel),<br>South Africa (ICASA), Mexico<br>(NOM), Egypt (NTRA), Israel<br>(MoC) |
| Regulatory compliance  | RoHS, WEEE; NEBS<br>Level 3 available   | RoHS, WEEE; NEBS<br>Level 3 available   | RoHS, WEEE; REACH  | RoHS, WEEE; REACH  |
| Citrix compliance regulatory model                                   | 24x 10GE SFP+   | 24x 10GE SFP+   | 2U1P1A   | 2U1P1A   |

\*Performance varies depending on ciphers deployed. Contact your Citrix sales representative for details.

\*\*Maximum ECDHE key transaction per second (TLS1-ECDHE-RSA-AES128-SHA 256)/Accelerated transactions only

| Platform | MPX/SDX 15060-50G | MPX/SDX 15040-50G | MPX/SDX 15030-50G | MPX/SDX 15020-50G |
|----------|-------------------|-------------------|-------------------|-------------------|
|----------|-------------------|-------------------|-------------------|-------------------|

### Attributes

|   |  |  |  |  |
|---|--|--|--|--|
| Memory  | 128 GB   | 128 GB   | 128 GB   | 128 GB   |
| Ethernet ports<br>(Published Ethernet interfaces compliant per IEEE802.3-2002/2005/2008/2012) | 4x 50GE QSFP28;<br>8x 10GE SFP+  | 4x 50GE QSFP28;<br>8x 10GE SFP+  | 4x 50GE QSFP28;<br>8x 10GE SFP+  | 4x 50GE QSFP28;<br>8x 10GE SFP+  |
| Transceivers support  | 50GE QSFP28 port: 50GE/<br>100GE QSFP28: SR4;<br>40GE QSFP+: SR4 25GE<br>SFP28: SR (Adapter<br>required) 10GE SFP+: SR,<br>LR (Adapter required)<br>10GE SFP+ port: 10GE<br>SFP+: SR, LR | 50GE QSFP28 port: 50GE/<br>100GE QSFP28: SR4;<br>40GE QSFP+: SR4 25GE<br>SFP28: SR (Adapter<br>required) 10GE SFP+: SR,<br>LR (Adapter required)<br>10GE SFP+ port: 10GE<br>SFP+: SR, LR | 50GE QSFP28 port: 50GE/<br>100GE QSFP28: SR4;<br>40GE QSFP+: SR4 25GE<br>SFP28: SR (Adapter<br>required) 10GE SFP+: SR,<br>LR (Adapter required)<br>10GE SFP+ port: 10GE<br>SFP+: SR, LR | 50GE QSFP28 port: 50GE/<br>100GE QSFP28: SR4;<br>40GE QSFP+: SR4 25GE<br>SFP28: SR (Adapter<br>required) 10GE SFP+: SR,<br>LR (Adapter required)<br>10GE SFP+ port: 10GE<br>SFP+: SR, LR |
| Raid support  | Yes  | Yes  | Yes  | Yes  |
| Pay-As-You-Grow and Burst Pack License upgrades   | Upgrade option to MPX<br>15100/80-50G  | Upgrade option to MPX<br>15100/80/60-50G   | Upgrade option to MPX<br>15100/80/60/40-50G  | Upgrade option to MPX<br>15100/80/60/40/30-50G   |

### Performance

|  |           |           |           |           |
|--|-----------|-----------|-----------|-----------|
| System throughput, Gbps (L7 throughput)                                  | 60        | 40        | 30        | 20        |
| L7 HTTP requests/sec   | 3,200,000 | 3,000,000 | 2,800,000 | 2,500,000 |
| SSL transactions/sec (2K key certificates)*                              | 110,000   | 66,000    | 42,000    | 24,000    |
| ECDHE transactions/sec**   | 45,000    | 30,000    | 20,000    | 11,000    |
| SSL throughput, Gbps   | 50        | 40        | 30        | 21        |
| Compression throughput, Gbps   | 8.5       | 7.8       | 7.2       | 6.4       |
| ICA Proxy/SSL VPN concurrent users                                       | 20,000    | 20,000    | 20,000    | 20,000    |
| Number of instances included/Maximum number of instances (on SDX models) | 40        | 30        | 20        | 5         |

### Mechanical, environmental, and regulatory

|  |  |  |  |  |
|--|--|--|--|--|
| Power supplies   | 2  | 2  | 2  | 2  |
| Input voltage and frequency ranges                                   | 100-240VAC full range,<br>50-60 Hz   | 100-240VAC full range,<br>50-60 Hz   | 100-240VAC full range,<br>50-60 Hz   | 100-240VAC full range,<br>50-60 Hz   |
| Optional DC power supply   | Yes  | Yes  | Yes  | Yes  |
| Max power supply   | 522W   | 522W   | 522W   | 522W   |
| Typical/max power consumption  | 300W 1024 BTU/Hr   | 300W 1024 BTU/Hr   | 300W 1024 BTU/Hr   | 300W 1024 BTU/Hr   |
| Weight lbs   | 39   | 39   | 39   | 39   |
| Height   | 2U   | 2U   | 2U   | 2U   |
| Width  | EIA 310-D, IEC 60297, DIN<br>41494 SC48D rack width<br>with mounting brackets  | EIA 310-D, IEC 60297, DIN<br>41494 SC48D rack width<br>with mounting brackets  | EIA 310-D, IEC 60297, DIN<br>41494 SC48D rack width<br>with mounting brackets  | EIA 310-D, IEC 60297, DIN<br>41494 SC48D rack width<br>with mounting brackets  |
| Depth  | 72 cm / 28 1/4 in  | 72 cm / 28 1/4 in  | 72 cm / 28 1/4 in  | 72 cm / 28 1/4 in  |
| Operating temperature  | 0 - 45°C (32 - 113°F)  | 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   | 5%-95%, non-condensing   |
| Safety certifications  | IEC 60950-1, 2nd Edition,<br>CSA 60950-1, 2nd Edition,<br>UL 60950-1, 2nd Edition, AS/<br>NZS 60950-1  | IEC 60950-1, 2nd Edition,<br>CSA 60950-1, 2nd Edition,<br>UL 60950-1, 2nd Edition, AS/<br>NZS 60950-1  | IEC 60950-1, 2nd Edition,<br>CSA 60950-1, 2nd Edition,<br>UL 60950-1, 2nd Edition, AS/<br>NZS 60950-1  | IEC 60950-1, 2nd Edition,<br>CSA 60950-1, 2nd Edition,<br>UL 60950-1, 2nd Edition, AS/<br>NZS 60950-1  |
| Electromagnetic emissions certifications and susceptibility standard | US (FCC (Part 15<br>Class A)), Europe (CE<br>(EN55032/55024)), Australia<br>(RCM), Japan (VCCI), Korea<br>(KCC), Taiwan (BSMI), China<br>(CCC), India (BIS), Russia<br>(CUTR) Russia (EAC), Saudi<br>Arabia (CITC), Brazil (Anatel),<br>South Africa (ICASA), Mexico<br>(NOM), Egypt (NTRA), Israel<br>(MoC) | US (FCC (Part 15<br>Class A)), Europe (CE<br>(EN55032/55024)), Australia<br>(RCM), Japan (VCCI), Korea<br>(KCC), Taiwan (BSMI), China<br>(CCC), India (BIS), Russia<br>(CUTR) Russia (EAC), Saudi<br>Arabia (CITC), Brazil (Anatel),<br>South Africa (ICASA), Mexico<br>(NOM), Egypt (NTRA), Israel<br>(MoC) | US (FCC (Part 15<br>Class A)), Europe (CE<br>(EN55032/55024)), Australia<br>(RCM), Japan (VCCI), Korea<br>(KCC), Taiwan (BSMI), China<br>(CCC), India (BIS), Russia<br>(CUTR) Russia (EAC), Saudi<br>Arabia (CITC), Brazil (Anatel),<br>South Africa (ICASA), Mexico<br>(NOM), Egypt (NTRA), Israel<br>(MoC) | US (FCC (Part 15<br>Class A)), Europe (CE<br>(EN55032/55024)), Australia<br>(RCM), Japan (VCCI), Korea<br>(KCC), Taiwan (BSMI), China<br>(CCC), India (BIS), Russia<br>(CUTR) Russia (EAC), Saudi<br>Arabia (CITC), Brazil (Anatel),<br>South Africa (ICASA), Mexico<br>(NOM), Egypt (NTRA), Israel<br>(MoC) |
| Regulatory compliance  | RoHS, WEEE   | RoHS, WEEE; REACH  | RoHS, WEEE; REACH  | RoHS, WEEE; REACH  |
| Citrix compliance regulatory model                                   | 2U1P1A   | 2U1P1A   | 2U1P1A   | 2U1P1A   |

\*Performance varies depending on ciphers deployed. Contact your Citrix sales representative for details.

\*\*Hybrid SSL optimization (TLS1-ECDHE-RSA-AES128-SHA 256).

| Platform  | MPX 15100  | MPX 15080  | MPX 15060  | MPX 15040  |
|---|--|--|--|--|
| <b>Attributes</b>   |  |  |  |  |
| Memory  | 128 GB   | 128 GB   | 128 GB   | 128 GB   |
| Ethernet ports<br>(Published Ethernet interfaces compliant per IEEE802.3-2002/2005/2008/2012) | 16x 25GE SFP28   | 16x 25GE SFP28   | 16x 25GE SFP28   | 16x 25GE SFP28   |
| Transceivers support  | 25GE SFP28: SR;<br>10GE SFP+: SR, LR   | 25GE SFP28: SR;<br>10GE SFP+: SR, LR   | 25GE SFP28: SR;<br>10GE SFP+: SR, LR   | 25GE SFP28: SR;<br>10GE SFP+: SR, LR   |
| Raid support  | Yes  | Yes  | Yes  |  |
| Pay-As-You-Grow and Burst Pack License upgrades   |  | Upgrade option to 15100  | Upgrade option to 15080  | Upgrade option to 15060  |
| <b>Performance</b>  |  |  |  |  |
| System throughput, Gbps (L7 throughput)   | 100  | 80   | 60   | 40   |
| L7 HTTP requests/sec  | 3,600,000  | 3,500,000  | 3,200,000  | 3,000,000  |
| SSL transactions/sec (2K key certificates)*   | 140,000  | 127,000  | 110,000  | 66,000   |
| ECDHE transactions/sec**  | 60,000   | 55,000   | 45,000   | 30,000   |
| SSL throughput, Gbps  | 70   | 60   | 50   | 40   |
| Compression throughput, Gbps  | 10.5   | 9.3  | 8.5  | 7.8  |
| ICA Proxy/SSL VPN concurrent users  | 20,000   | 20,000   | 20,000   | 20,000   |
| Number of instances included/Maximum number of instances (on SDX models)                      | N/A  | N/A  | N/A  | N/A  |
| <b>Mechanical, environmental, and regulatory</b>  |  |  |  |  |
| Power supplies  | 2  | 2  | 2  | 2  |
| Input voltage and frequency ranges  | 100-240VAC full range,<br>50-60 Hz   | 100-240VAC full range,<br>50-60 Hz   | 100-240VAC full range,<br>50-60 Hz   | 100-240VAC full range,<br>50-60 Hz   |
| Optional DC power supply  | Yes  | Yes  | Yes  | Yes  |
| Max power supply  | 1000W  | 1000W  | 1000W  | 1000W  |
| Typical/max power consumption   | 310W/420W  | 310W/420W  | 310W/420W  | 310W/420W  |
| Weight lbs  | 60   | 60   | 60   | 60   |
| Height  | 2U   | 2U   | 2U   | 2U   |
| Width   | EIA 310-D for 19-inch racks  | EIA 310-D for 19-inch racks  | EIA 310-D for 19-inch racks  | EIA 310-D for 19-inch racks  |
| Depth   | 71.1 cm / 28 in  | 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)  | 0 - 45°C (32 - 113°F)  |
| Allowed relative humidity   | 5%-95%, non-condensing   | 5%-95%, non-condensing   | 5%-95%, non-condensing   | 5%-95%, non-condensing   |
| Safety certifications   | IEC 60950-1, 2nd Edition,<br>CSA 60950-1, 2nd Edition,<br>UL 60950-1, 2nd Edition, AS/<br>NZS 60950-1  | IEC 60950-1, 2nd Edition,<br>CSA 60950-1, 2nd Edition,<br>UL 60950-1, 2nd Edition, AS/<br>NZS 60950-1  | IEC 60950-1, 2nd Edition,<br>CSA 60950-1, 2nd Edition,<br>UL 60950-1, 2nd Edition, AS/<br>NZS 60950-1  | IEC 60950-1, 2nd Edition,<br>CSA 60950-1, 2nd Edition,<br>UL 60950-1, 2nd Edition, AS/<br>NZS 60950-1  |
| Electromagnetic emissions certifications and susceptibility standard                          | US (FCC (Part 15 Class A)), Europe (CE (EN55032/55024)), 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) | US (FCC (Part 15 Class A)), Europe (CE (EN55032/55024)), 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) | US (FCC (Part 15 Class A)), Europe (CE (EN55032/55024)), 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) | US (FCC (Part 15 Class A)), Europe (CE (EN55032/55024)), 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  | RoHS, WEEE, REACH  |
| Citrix compliance regulatory model  | 2U1P1A   | 2U1P1A   | 2U1P1A   | 2U1P1A   |

\*Performance varies depending on ciphers deployed. Contact your Citrix sales representative for details.

\*\*Hybrid SSL optimization (TLS1-ECDHE-RSA-AES128-SHA 256).

| Platform  | MPX 15030  | MPX 15020  | MPX/SDX 14100   | MPX/SDX 14080   |
|---|--|--|---|---|
| <b>Attributes</b>   |  |  |   |   |
| Memory  | 128 GB   | 128 GB   | 64 GB   | 64 GB   |
| Ethernet ports<br>(Published Ethernet interfaces compliant per IEEE802.3-2002/2005/2008/2012) | 16x 25GE SFP28   | 16x 25GE SFP28   | 16x 10GE SFP+   | 16x 10GE SFP+   |
| Transceivers support  | 25GE SFP28: SR;<br>10GE SFP+: SR, LR   | 25GE SFP28: SR;<br>10GE SFP+: SR, LR   | 10GE SFP+: SR, LR; 1GE<br>SFP: CU   | 10GE SFP+: SR, LR; 1GE<br>SFP: CU   |
| Raid support  | Yes  | Yes  | Yes   | Yes   |
| Pay-As-You-Grow and Burst Pack License upgrades   | Upgrade option to 15040  | Upgrade option to 15030  |   | Upgrade option to MPX/SDX<br>14100  |
| <b>Performance</b>  |  |  |   |   |
| System throughput, Gbps (L7 throughput)   | 30   | 20   | 100   | 80  |
| L7 HTTP requests/sec  | 2,800,000  | 2,500,000  | 3,000,000   | 2,800,000   |
| SSL transactions/sec (2K key certificates)*   | 42,000   | 24,000   | 69,000  | 69,000  |
| ECDHE transactions/sec**  | 20,000   | 11,000   | 33,500/8200   | 32,000/8,200  |
| SSL throughput, Gbps  | 30   | 20   | 46  | 43  |
| Compression throughput, Gbps  | 7.2  | 6.4  | 10  | 8.5   |
| ICA Proxy/SSL VPN concurrent users  | 20,000   | 20,000   | 20,000  | 20,000  |
| Number of instances included/Maximum number of instances (on SDX models)                      | N/A  | N/A  | 25/25   | 25/25   |
| <b>Mechanical, environmental, and regulatory</b>  |  |  |   |   |
| Power supplies  | 2  | 2  | 2   | 2   |
| Input voltage and frequency ranges  | 100-240VAC full range,<br>50-60 Hz   | 100-240VAC full range,<br>50-60 Hz   | 100-240VAC full range,<br>50-60 Hz  | 100-240VAC full range,<br>50-60 Hz  |
| Optional DC power supply  | Yes  | Yes  | Yes   | Yes   |
| Max power supply  | 1000W  | 1000W  | 528W  | 528W  |
| Typical/max power consumption   | 310W/420W  | 310W/420W  | 300W 1024 BTU/Hr  | 300W 1024 BTU/Hr  |
| Weight lbs  | 60   | 60   | 60  | 60  |
| Height  | 2U   | 2U   | 2U  | 2U  |
| Width   | EIA 310-D for 19-inch racks  | EIA 310-D for 19-inch racks  | EIA 310-D, IEC 60297, DIN<br>41494 SC48D rack width<br>with mounting brackets | EIA 310-D, IEC 60297, DIN<br>41494 SC48D rack width<br>with mounting brackets |
| Depth   | 71.1 cm / 28 in  | 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)   | 0 - 45°C (32 - 113°F)   |
| Allowed relative humidity   | 5%-95%, non-condensing   | 5%-95%, non-condensing   | 5%-95%, non-condensing  | 5%-95%, non-condensing  |
| Safety certifications   | IEC 60950-1, 2nd Edition,<br>CSA 60950-1, 2nd Edition,<br>UL 60950-1, 2nd Edition, AS/<br>NZS 60950-1  | IEC 60950-1, 2nd Edition,<br>CSA 60950-1, 2nd Edition,<br>UL 60950-1, 2nd Edition, AS/<br>NZS 60950-1  | CSA   | CSA   |
| Electromagnetic emissions certifications and susceptibility standard                          | US (FCC (Part 15 Class A)), Europe (CE (EN55032/55024)), 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) | US (FCC (Part 15 Class A)), Europe (CE (EN55032/55024)), 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) | FCC (Part 15 Class A), DoC, CE, VCCI, CNS, AN/NES                             | FCC (Part 15 Class A), DoC, CE, VCCI, CNS, AN/NES                             |
| Regulatory compliance   | RoHS, WEEE, REACH  | RoHS, WEEE, REACH  | RoHS, WEEE; NEBS<br>Level 3 available   | RoHS, WEEE; NEBS<br>Level 3 available   |
| Citrix compliance regulatory model  | 2U1PID   | 2U1PID   | 24x 10GE SFP+   | 24x 10GE SFP+   |

\*Performance varies depending on ciphers deployed. Contact your Citrix sales representative for details.

\*\*Maximum ECDHE key transaction per second (TLS1-ECDHE-RSA-AES128-SHA 256)/Accelerated transactions only

| Platform  | MPX/SDX 14060   | MPX/SDX 14040   | MPX/SDX 14030   | MPX/SDX 14020   |
|---|---|---|---|---|
| <b>Attributes</b>   |   |   |   |   |
| Memory  | 64 GB   | 64 GB   | 64 GB   | 64 GB   |
| Ethernet ports<br>(Published Ethernet interfaces compliant per IEEE802.3-2002/2005/2008/2012) | 16x 10GE SFP+   | 16x 10GE SFP+   | 16x 10GE SFP+   | 16x 10GE SFP+   |
| Transceivers support  | 10GE SFP+: SR, LR; 1GE SFP: CU  | 10GE SFP+: SR, LR; 1GE SFP: CU  | 10GE SFP+: SR, LR; 1GE SFP: CU  | 10GE SFP+: SR, LR; 1GE SFP: CU  |
| Raid support  | Yes   | Yes   | Yes   | Yes   |
| Pay-As-You-Grow and Burst Pack License upgrades   | Upgrade option to MPX/SDX 14080 and 14100                               | Upgrade option to MPX/SDX 14060, 14080, and 14100                       | Upgrade option to MPX/SDX 14040, 14060, 14080, and 14100                | Upgrade option to MPX/SDX 14030, 14040, 14060, 14080, and 14100         |
| <b>Performance</b>  |   |   |   |   |
| System throughput, Gbps (L7 throughput)   | 60  | 40  | 30  | 20  |
| L7 HTTP requests/sec  | 2,400,000   | 2,400,000   | 2,000,000   | 1,700,000   |
| SSL transactions/sec (2K)*  | 69,000  | 42,000  | 30,000  | 22,000  |
| ECDHE transactions/sec**  | 31,500/8,200  | 25,500/3,400  | 23,000/3,100  | 20,000/3,000  |
| SSL throughput, Gbps  | 40  | 34  | 23  | 20  |
| Compression throughput, Gbps  | 8   | 6   | 5   | 4.4   |
| ICA Proxy/SSL VPN concurrent users  | 20,000  | 20,000  | 20,000  | 20,000  |
| Number of instances included/<br>Maximum number of instances (on SDX models)                  | 25/25   | 20/25   | 10/25   | 5/25  |
| <b>Mechanical, environmental, and regulatory</b>  |   |   |   |   |
| Power supplies  | 2   | 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   | 100-240VAC full range, 47-63 Hz   |
| Optional DC power supply  | Yes   | Yes   | Yes   | Yes   |
| Max power supply  | 528W  | 528W  | 528W  | 528W  |
| Typical/max power consumption   | 300W 1024 BTU/Hr  | 300W 1024 BTU/Hr  | 300W 1024 BTU/Hr  | 300W 1024 BTU/Hr  |
| Weight, lbs   | 60  | 60  | 60  | 60  |
| Height  | 2U  | 2U  | 2U  | 2U  |
| Width   | EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets | EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets | EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets | EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets |
| Depth   | 71.1 cm / 28 in   | 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)   | 0-45°C (32-113°F)   |
| Allowed relative humidity   | 5%-95%, non-condensing  | 5%-95%, non-condensing  | 5%-95%, non-condensing  | 5%-95%, non-condensing  |
| Safety certifications   | CSA   | CSA   | CSA   | CSA   |
| Electromagnetic emissions certifications and susceptibility standard                          | FCC (Part 15 Class A), DoC, CE, VCCI, CNS, AN/NES                       | FCC (Part 15 Class A), DoC, CE, VCCI, CNS, AN/NES                       | FCC (Part 15 Class A), DoC, CE, VCCI, CNS, AN/NES                       | FCC (Part 15 Class A), DoC, CE, VCCI, CNS, AN/NES                       |
| Regulatory compliance   | RoHS, WEEE,   | RoHS, WEEE,   | RoHS, WEEE,   | RoHS, WEEE,   |
| Citrix compliance regulatory model  | 2U1P1B  | 2U1P1B  | 2U1P1B  | 2U1P1B  |

\*Performance varies depending on ciphers deployed. Contact your Citrix sales representative for details.

\*\*Maximum ECDHE key transaction per second (TLS1-ECDHE-RSA-AES128-SHA 256)/Accelerated transactions only

| Platform | MPX/SDX 14100-40G | MPX/SDX 14080-40G | MPX/SDX 14060-40G |
|----------|-------------------|-------------------|-------------------|
|----------|-------------------|-------------------|-------------------|

### Attributes

|   |                                    |                                    |  |
|---|------------------------------------|------------------------------------|--|
| Memory  | 64 GB                              | 64 GB                              | 64 GB  |
| Ethernet ports<br>(Published Ethernet interfaces compliant per IEEE802.3-2002/2005/2008/2012) | 4x 40GE QSFP+;<br>16x 10GE SFP+    | 4x 40GE QSFP+;<br>16x 10GE SFP+    | 4x 40GE QSFP+;<br>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 and Burst Pack License upgrades   |                                    | Upgrade option to MPX-SDX 14100-4G | Upgrade option to MPX/SDX 14080-40G, 14100-40G |

### Performance

|  |              |              |              |
|--|--------------|--------------|--------------|
| 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)*   | 69,000       | 69,000       | 69,000       |
| ECDHE transactions/sec**   | 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/<br>Maximum number of instances (on SDX models) | 25/25        | 25/25        | 25/25        |

### Mechanical, environmental, and regulatory

|   |   |   |   |
|---|---|---|---|
| Power supplies  | 2   | 2   | 2   |
| Input voltage and frequency ranges                                      | 100-240VAC full range,<br>47-63 Hz  | 100-240VAC full range,<br>47-63 Hz  | 100-240VAC full range,<br>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,<br>DIN 41494 SC48D rack width<br>with mounting brackets | EIA 310-D, IEC 60297,<br>DIN 41494 SC48D rack width<br>with mounting brackets | EIA 310-D, IEC 60297,<br>DIN 41494 SC48D rack width<br>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   | CSA   | CSA   |
| Electromagnetic emissions certifications<br>and susceptibility standard | FCC (Part 15 Class A), DoC,<br>CE, VCCI, CNS, AN/NES                          | FCC (Part 15 Class A), DoC,<br>CE, VCCI, CNS, AN/NES                          | FCC (Part 15 Class A), DoC,<br>CE, VCCI, CNS, AN/NES                          |
| Regulatory compliance   | RoHS, WEEE  | RoHS, WEEE  | RoHS, WEEE  |
| Citrix compliance regulatory model                                      | 2U1P1B  | 2U1P1B  | 2U1P1B  |

\*Performance varies depending on ciphers deployed. Contact your Citrix sales representative for details.

\*\*Maximum ECDHE key transaction per second (TLS1-ECDHE-RSA-AES128-SHA 256)/Accelerated transactions only



| Platform  | MPX/SDX 14040-40G   | MPX/SDX 14020-40G   | MPX/SDX 14100-40S   | MPX/SDX 14080-40S   |
|---|---|---|---|---|
| <b>Attributes</b>   |   |   |   |   |
| Memory  | 64 GB   | 64 GB   | 64 GB   | 64 GB   |
| Ethernet ports<br>(Published Ethernet interfaces compliant per IEEE802.3-2002/2005/2008/2012) | 4x 40GE QSFP+;<br>16x 10GE SFP+   | 4x 40GE QSFP+;<br>16x 10GE SFP+   | 4x 40GE QSFP+;<br>8x 10GE SFP+  | 4x 40GE QSFP+;<br>8x 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  | 40GE QSFP+; SR4; 10GE SFP+; SR, LR  |
| Raid support  | Yes   | Yes   | Yes   | Yes   |
| Pay-As-You-Grow and Burst Pack License upgrades   | Upgrade option to MPX/SDX 14060-40G, 14080-40G, 14100-40G                     | Upgrade option to MPX/SDX 14040-40G, 14060-40G, 14080-40G, 14100-40G          |   | Upgrade option to MPX/SDX 14100-40S   |
| <b>Performance</b>  |   |   |   |   |
| System throughput, Gbps (L7 throughput)   | 40  | 20  | 100   | 80  |
| L7 HTTP requests/sec  | 2,400,000   | 1,400,000   | 2,900,000   | 2,800,000   |
| SSL transactions/sec (2K)*  | 42,000  | 22,000  | 275,000   | 207,000   |
| ECDHE transactions/sec**  | 25,500/3,400  | 20,000/3,000  | 51,000/32,500   | 45,000/24,000   |
| SSL throughput, Gbps  | 34  | 21  | 59  | 54  |
| Compression throughput, Gbps  | 6   | 4.4   | 10.5  | 8.6   |
| ICA Proxy/SSL VPN concurrent users  | 20,000  | 20,000  | 20,000  | 20,000  |
| Number of instances included/<br>Maximum number of instances (on SDX models)                  | 20/25   | 5/25  | 25/25   | 25/25   |
| <b>Mechanical, environmental, and regulatory</b>  |   |   |   |   |
| Power supplies  | 2   | 2   | 2   | 2   |
| Input voltage and frequency ranges  | 100-240VAC full range,<br>47-63 Hz  | 100-240VAC full range,<br>47-63 Hz  | 100-240VAC full range,<br>47-63 Hz  | 100-240VAC full range,<br>47-63 Hz  |
| Optional DC power supply  | Yes   | Yes   | Yes   | Yes   |
| Max power supply  | 528W  | 528W  | 528W  | 528W  |
| Typical/max power consumption   | 300W 1024 BTU/Hr  | 300W 1024 BTU/Hr  | 300W 1024 BTU/Hr  | 300W 1024 BTU/Hr  |
| Weight, lbs   | 60  | 60  | 60  | 60  |
| Height  | 2U  | 2U  | 2U  | 2U  |
| Width   | EIA 310-D, IEC 60297,<br>DIN 41494 SC48D rack width<br>with mounting brackets | EIA 310-D, IEC 60297,<br>DIN 41494 SC48D rack width<br>with mounting brackets | EIA 310-D, IEC 60297,<br>DIN 41494 SC48D rack width<br>with mounting brackets | EIA 310-D, IEC 60297,<br>DIN 41494 SC48D rack width<br>with mounting brackets |
| Depth   | 71.1 cm / 28 in   | 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)   | 0-45°C (32-113°F)   |
| Allowed relative humidity   | 5%-95%, non-condensing  | 5%-95%, non-condensing  | 5%-95%, non-condensing  | 5%-95%, non-condensing  |
| Safety certifications   | CSA   | CSA   | CSA   | CSA   |
| Electromagnetic emissions certifications and susceptibility standard                          | FCC (Part 15 Class A), DoC, CE, VCCI, CNS, AN/NES                             | FCC (Part 15 Class A), DoC, CE, VCCI, CNS, AN/NES                             | FCC (Part 15 Class A), DoC, CE, VCCI, CNS, AN/NES                             | FCC (Part 15 Class A), DoC, CE, VCCI, CNS, AN/NES                             |
| Regulatory compliance   | RoHS, WEEE,   | RoHS, WEEE,   | RoHS, WEEE,   | RoHS, WEEE,   |
| Citrix compliance regulatory model  | 2U1P1B  | 2U1P1B  | 2U1P1B  | 2U1P1B  |

\*Performance varies depending on ciphers deployed. Contact your Citrix sales representative for details.

\*\*Maximum ECDHE key transaction per second (TLS1-ECDHE-RSA-AES128-SHA 256)/Accelerated transactions only

| Platform | MPX 14060-40S | MPX/SDX 14040-40S |
|----------|---------------|-------------------|
|----------|---------------|-------------------|

**Attributes**

|   |  |   |
|---|--|---|
| Memory  | 64 GB  | 64 GB   |
| Ethernet ports<br>(Published Ethernet interfaces compliant per IEEE802.3-2002/2005/2008/2012) | 4x 40GE QSFP+;<br>8x 10GE SFP+                 | 4x 40GE QSFP+;<br>8x 10GE SFP+                            |
| Transceivers support  | 40GE QSFP+: SR4; 10GE SFP+: SR, LR             | 40GE QSFP+: SR4; 10GE SFP+: SR, LR                        |
| Raid support  | Yes  | Yes   |
| Pay-As-You-Grow and Burst Pack License upgrades   | Upgrade option to MPX/SDX 14080-40S, 14100-40S | Upgrade option to MPX/SDX 14060-40S, 14080-40S, 14100-40S |

**Performance**

|  |               |               |
|--|---------------|---------------|
| System throughput, Gbps (L7 throughput)                                      | 60            | 40            |
| L7 HTTP requests/sec   | 2,700,000     | 2,400,000     |
| SSL transactions/sec (2K)*   | 172,000       | 103,000       |
| ECDHE transactions/sec**   | 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/<br>Maximum number of instances (on SDX models) | 20/25         | 20/25         |

**Mechanical, environmental, and regulatory**

|  |   |   |
|--|---|---|
| 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 | 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   | CSA   |
| Electromagnetic emissions certifications and susceptibility standard | FCC (Part 15 Class A), DoC, CE, VCCI, CNS, AN/NES                       | FCC (Part 15 Class A), DoC, CE, VCCI, CNS, AN/NES                       |
| Regulatory compliance  | RoHS, WEEE,   | RoHS, WEEE,   |
| Citrix compliance regulatory model                                   | 2U1P1B  | 2U1P1B  |

\*Performance varies depending on ciphers deployed. Contact your Citrix sales representative for details.

\*\*Maximum ECDHE key transaction per second (TLS1-ECDHE-RSA-AES128-SHA 256)/Accelerated transactions only

| Platform | MPX/SDX 14080 FIPS | MPX/SDX 14060 FIPS | MPX/SDX 14030 FIPS |
|----------|--------------------|--------------------|--------------------|
|----------|--------------------|--------------------|--------------------|

### Attributes

|   |                                |                                      |  |
|---|--------------------------------|--------------------------------------|--|
| Memory  | 64 GB                          | 64 GB                                | 64 GB  |
| Ethernet ports<br>(Published Ethernet interfaces compliant per IEEE802.3-2002/2005/2008/2012) | 16x 10GE SFP+                  | 16x 10GE SFP+                        | 16x 10GE SFP+                                    |
| Transceivers support  | 10GE SFP+: SR, LR; 1GE SFP: CU | 10GE SFP+: SR, LR; 1GE SFP: CU       | 10GE SFP+: SR, LR; 1GE SFP: CU                   |
| Raid support  | Yes                            | Yes                                  | Yes  |
| Pay-As-You-Grow and Burst Pack License upgrades   |                                | Upgrade option to MPX/SDX 14080 FIPS | Upgrade option to MPX/SDX 14060 FIPS, 14080 FIPS |

### Performance

|  |           |           |           |
|--|-----------|-----------|-----------|
| 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)*   | 33,000    | 25,000    | 18,000    |
| ECDHE transactions/sec**   | 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/<br>Maximum number of instances (on SDX models) | 25/25     | 25/25     | 10/25     |

### Mechanical, environmental, and regulatory

|  |   |   |   |
|--|---|---|---|
| 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 2219 BTU/Hr  | 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 | EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets | EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets |
| Depth  | 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   | CSA   | CSA   |
| Electromagnetic emissions certifications and susceptibility standard | FCC (Part 15 Class A), DoC, CE, VCCI, CNS, AN/NES                       | FCC (Part 15 Class A), DoC, CE, VCCI, CNS, AN/NES                       | FCC (Part 15 Class A), DoC, CE, VCCI, CNS, AN/NES                       |
| Regulatory compliance  | RoHS, 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  |

\*Performance varies depending on ciphers deployed. Contact your Citrix sales representative for details.

\*\*Hybrid SSL optimization (TLS1-ECDHE-RSA-AES128-SHA 256).

| Platform  | MPX/SDX 8930  | MPX/SDX 8920  | MPX 8910  | MPX 8905  |
|---|---|---|---|---|
| <b>Attributes</b>   |   |   |   |   |
| Memory  | 32 GB   | 32 GB   | 32 GB   | 32 GB   |
| Ethernet ports<br>(Published Ethernet interfaces compliant per IEEE802.3-2002/2005/2008/2012) | 4x 10GE SFP+;<br>6x 10/100/1000 CU  | 4x 10GE SFP+;<br>6x 10/100/1000 CU  | 4x 10GE SFP+;<br>6x 10/100/1000 CU  | 4x 10GE SFP+;<br>6x 10/100/1000 CU  |
| Transceivers support  | 10GE SFP+: SR, LR;  | 10GE SFP+: SR, LR;  | 10GE SFP+: SR, LR;  | 10GE SFP+: SR, LR;  |
| Raid support  | No  | No  | No  | No  |
| Pay-As-You-Grow and Burst Pack License upgrades   |   | Upgrade option to MPX/<br>SDX 8930  | Upgrade option to MPX<br>8920 and 8930  | Upgrade option to MPX<br>8910, 8920, and 8930                                       |
| <b>Performance</b>  |   |   |   |   |
| System throughput, Gbps (L7 throughput)   | 33  | 20  | 10  | 5   |
| L7 HTTP requests/sec  | 2,300,000   | 1,700,000   | 1,400,000   | 990,000   |
| SSL transactions/sec (2K)*  | 40,000  | 22,000  | 13,000  | 8,000   |
| ECDHE transactions/sec**  | 16,000  | 10,000  | 6,000   | 4,000   |
| SSL throughput, Gbps  | 25  | 20  | 10  | 5   |
| Compression throughput, Gbps  | 4.8   | 4   | 3.5   | 2.5   |
| ICA Proxy/SSL VPN concurrent users  | 10,000  | 10,000  | 10,000  | 10,000  |
| Number of instances included/<br>Maximum number of instances (on SDX models)                  | 2/7   | 2/7   | N/A   | N/A   |
| <b>Mechanical, environmental, and regulatory</b>  |   |   |   |   |
| Power supplies  | 1 (2nd optional)  | 1 (2nd optional)  | 1 (2nd optional)  | 1 (2nd optional)  |
| Input voltage and frequency ranges  | 100-240VAC full range,<br>50-60 Hz  | 100-240VAC full range,<br>50-60 Hz  | 100-240VAC full range,<br>50-60 Hz  | 100-240VAC full range,<br>50-60 Hz  |
| Optional DC power supply  | Yes   | Yes   | Yes   | Yes   |
| Max power supply  | 275W  | 275W  | 275W  | 275W  |
| Typical/max power consumption   | 225W  | 225W  | 225W  | 225W  |
| Weight, lbs   | 25  | 25  | 25  | 25  |
| Height  | 1U  | 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   | EIA 310-D for 19-inch racks   |
| Depth   | 61 cm / 24 in   | 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)   | 0-45°C (32-113°F)   |
| Allowed relative humidity   | 5%-95%, non-condensing  | 5%-95%, non-condensing  | 5%-95%, non-condensing  | 5%-95%, non-condensing  |
| Safety certifications   | CSA   | CSA   | CSA   | CSA   |
| Electromagnetic emissions certifications<br>and susceptibility standard                       | (FCC) (CE), (VCCI), (RCM),<br>(CCC), (KCC), (BIS), (NOM),<br>(CITC), (ICASA), (EAC) | (FCC) (CE), (VCCI), (RCM),<br>(CCC), (KCC), (BIS), (NOM),<br>(CITC), (ICASA), (EAC) | (FCC) (CE), (VCCI), (RCM),<br>(CCC), (KCC), (BIS), (NOM),<br>(CITC), (ICASA), (EAC) | (FCC) (CE), (VCCI), (RCM),<br>(CCC), (KCC), (BIS), (NOM),<br>(CITC), (ICASA), (EAC) |
| Regulatory compliance   | RoHS, WEEE, REACH   | RoHS, WEEE, REACH   | RoHS, WEEE, REACH   | RoHS, WEEE, REACH   |
| Citrix compliance regulatory model  | 1U1P1A  | 1U1P1A  | 1U1P1A  | 1U1P1A  |

\*Performance varies depending on ciphers deployed. Contact your Citrix sales representative for details.

\*\*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<br>(Published Ethernet interfaces compliant per IEEE802.3-2002/2005/2008/2012) | 2x 10GE SFP+;<br>6x 10/100/1000 CU                            | 2x 10GE SFP+;<br>6x 10/100/1000 CU                            | 2x 10GE SFP+;<br>6x 10/100/1000 CU                            |
| Transceivers support  | 10GE SFP+: SR, LR;<br>1GE SFP: CU                             | 10GE SFP+: SR, LR;<br>1GE SFP: CU                             | 10GE SFP+: SR, LR;<br>1GE SFP: CU                             |
| Raid support  | No  | No  | No  |
| Pay-As-You-Grow and Burst Pack License upgrades   |   | Upgrade option to MPX 5910                                    | Upgrade option to MPX 5905 and 5910                           |
| <b>Performance</b>  |   |   |   |
| System throughput, Gbps (L7 throughput)   | 10  | 5   | 1   |
| L7 HTTP requests/sec  | 900,000   | 700,000   | 400,000   |
| SSL transactions/sec (2K)*  | 12,000  | 6,000   | 4,000   |
| ECDHE transactions/sec**  | 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/<br>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  | 336W  | 336W  | 336W  |
| Typical/max power consumption   | 300W 840 BTU/Hr   | 300W 840 BTU/Hr 3   | 00W 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 emissions certifications and susceptibility standard                          | (FCC) (CE), (VCCI), (RCM), (CCC), (KCC), (BIS), (NOM), (CITC) | (FCC) (CE), (VCCI), (RCM), (CCC), (KCC), (BIS), (NOM), (CITC) | (FCC) (CE), (VCCI), (RCM), (CCC), (KCC), (BIS), (NOM), (CITC) |
| Regulatory compliance   | RoHS, WEEE, REACH   | RoHS, WEEE, REACH   | RoHS, WEEE, REACH   |
| Citrix compliance regulatory model  | 1U1P1A  | 1U1P1A  | 1U1P1A  |

\*Performance varies depending on ciphers deployed. Contact your Citrix sales representative for details.

\*\*Hybrid SSL optimization (TLS1-ECDHE-RSA-AES128-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 NetScaler 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 +, OCSP, Diameter, etc.

### L4-7 traffic management

#### Layer 4 load balancing (LB)

- Protocols supported: TCP, UDP, FTP, HTTP, HTTPS, DNS (TCP and UDP), SIP (over UDP), RTSP, RADIUS, Diameter, SQL, RDP, IS-IS, SMPP
- Algorithms: Round Robin, Least Packets, Least Bandwidth, Least Connections, Response Time, Hashing (URL, Domain, Source IP, Destination IP, and CustomID), SNMP-provided metric, Server Application State Protocol (SASP)
- Session persistence: Source IP, cookie, server, group, SSL session, SIP CALLID, Token-based, SESSIONID, Diameter AVP
- Session protocols: TCP, UDP, SSL\_TCP, Multi-path TCP, SPDY
- Server monitoring: Ping, TCP, URL, ECV, scriptable health checks, Dynamic Server Response Time
- Link load balancing

#### 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

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### 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

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## 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



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### **Support for Citrix Endpoint Management, formerly XenMobile MDM<sup>5</sup>**

- Front end optimization scalable to over 100,000 concurrent users
- Citrix Gateway connector for Exchange ActiveSync, formerly XenMobile NetScaler Connector, 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), formerly NetScaler MAS:**

- 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

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### 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
- 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.

#### About Citrix

Citrix (NASDAQ:CTXS) aims to power a world where people, organizations and things are securely connected and accessible to make the extraordinary possible. We help customers reimagine the future of work by providing the most comprehensive secure digital workspace that unifies the apps, data and services people need to be productive, and simplifies IT's ability to adopt and manage complex cloud environments. With 2016 annual revenue of \$3.42 billion, Citrix solutions are in use by more than 400,000 organizations including 99 percent of the Fortune 100 and 98 percent of the Fortune 500.



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