Cisco Secure ADC: Alteon D-Line Technical Specifications



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Contents

Alteon D-9800, Alteon D-9800S, Alteon D-9800SL	3
Alteon D-8600S, Alteon D-8600SL	6
Alteon D-7700S, Alteon D-7700SL, Alteon D-7700DS	9
Alteon D-7100S, Alteon D-7100SL, Alteon D-7100DS	12
Alteon D-6300F, Alteon D-6300M, Alteon D-6300HD	15
Alteon D-6024, Alteon D-6024S, Alteon D-6024SL	18
Alteon D-5424SL, D-5820SL	21
Alteon D-5208, Alteon D-5208S	24
Alteon D-4208S	27

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Specifications	Alteon® D-9800*	Alteon D-9800S	Alteon D-9800SL
Performance			
Maximum Layer 4/ Layer 7 throughput	320 Gbps/210 Gbps	320 Gbps/210 Gbps	320 Gbps/210 Gbps
Layer 4 connections per second	4.7M	4.7M	4.7M
Maximum Layer 4 concurrent connections	280M	280M	280M
Layer 7 requests per second	8M	8M	8M
SSL performance**			
RSA CPS (2000 keys)	35K	100K	200K
ECC CPS (P256)	35K	50K	140K
SSL bulk encryption throughput (Gbps)	30	50	100
Licenses			
Available throughput licenses	240 and 320 Gbps	240 and 320 Gbps	240 and 320 Gbps
Max number of virtual ADC instances***	72	72	72

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Specifications	Alteon® D-9800*	Alteon D-9800S	Alteon D-9800SL
Hardware specifications			
Processor	2 Intel® 18-core CPUs	2 Intel 18-core CPUs	2 Intel 18-core CPUs
Memory	Up to 384 GB	Up to 384 GB	Up to 384 GB
Storage	SSD **0.5 TB**, 1 TB, 2 TB, 4 TB	SSD **0.5 TB**, 1 TB, 2 TB, 4 TB	SSD **0.5 TB**, 1 TB, 2 TB, 4 TB
Traffic ports	8x 100/40/25/10 GbE QSFP28	8x 100/40/25/10 GbE QSFP28	8x 100/40/25/10 GbE QSFP28
HPP (high-performance package)	NA	NA	NA
USB port	Yes	Yes	Yes
RS-232C console	Serial connection	Serial connection	Serial connection
Environmental specifications			
Power	Auto-range dual power supply 80-plus Platinum certified (AC PSU) AC: 100-240 V, 47-63 Hz Power consumption: 800W DC power supply is optional	Auto-range dual power supply 80-plus Platinum certified (AC PSU) AC: 100-240 V, 47-63 Hz Power consumption: 800W DC power supply is optional	Auto-range dual power supply 80-plus Platinum certified (AC PSU) AC: 100-240 V, 47-63 Hz Power consumption: 800W DC power supply is optional
Heat dissipation	1800 BTU/hr	1800 BTU/hr	1800 BTU/hr
Dimensions	445 mm (17.54 in.) W x 730 mm (28.75 in.) D x 87 mm (3.44 in./2U) H	445 mm (17.54 in.) W x 730 mm (28.75 in.) D x 87 mm (3.44 in./2U) H	445 mm (17.54 in.) W x 730 mm (28.75 in.) D x 87 mm (3.44 in./2U) H
Weight	14.8 kg (32.6 lb)	15 kg (33 lb)	15.2 kg (33.5 lb)
Operating environmental	Temperature: 10° to 40°C (50° to 104°F) Humidity: 8% to 90% noncondensing	Temperature: 10° to 40°C (50° to 104°F) Humidity: 8% to 90% noncondensing	Temperature: 10° to 40°C (50° to 104°F) Humidity: 8% to 90% noncondensing

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Specifications	Alteon® D-9800*	Alteon D-9800S	Alteon D-9800SL
Airflow direction	Front to back	Front to back	Front to back
Compliance and certifications			
Compliance			
RoHS2	Compliant (EU directive 2011/65/EU)		
Safety/EMC/EMI	FCC Part 15B (Class A); ICES-003:2016 Issue 6, Class A; ANSI C63.4:2014; EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011 + A2:2013; EN 62479:2010; EN 50581:2012; EN 55024:2010; EN 55032:2012 Class A; EN 61000-3-2:2014; EN 61000-3-3:2013; AS/NZS CISPR 32:2013; AS/NZS 60950.1: 2011		
Certifications	CCC (China), UL (US, Canada), CE (Europe), FCC (US), KCC (Korea), BSMI (Taiwan), EAC (Russia), VCCI (Japan), NRCS (South Africa), TCVN (Vietnam), BIS (India)		

*Alteon is a registered trademark of Radware, Inc.

**S/SL models include hardware SSL acceleration card.

***High virtual ADC density requires a license.

Cisco sells Alteon Application Delivery Controllers, industry-leading DDoS protection solutions, web application and API protection (WAAP), and bot management solutions through its global OEM partnership with Radware.

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Specifications	Alteon D-8600S	Alteon D-8600SL
Performance		
Maximum Layer 4/Layer 7 throughput	200 Gbps/150 Gbps	200 Gbps/150 Gbps
Layer 4 connections per second	3.6M	3.6M
Maximum Layer 4 concurrent connections	96M	96M
Layer 7 requests per second	5.8M	5.8M
SSL performance		
RSA CPS (2000 keys)	110K	150K
ECC CPS (EC-P256)	80K	100K
Bulk encryption throughput (Gbps)	60	80
Licenses		
Available throughput licenses	100 and 200 Gbps	100 and 200 Gbps
Max number of virtual ADC instances*	40	40
Hardware specifications		
Processor	Intel 24-core CPU	Intel 24-core CPU
Memory	128 GB/256 GB	128 GB/256 GB
Storage	480 GB SSD	480 GB SSD
Traffic ports	24x 25/10 GbE SFP28/SFP+ 8x 100/40 GbE QSFP28/QSFP	24x 25/10 GbE SFP28/SFP+ 8x 100/40 GbE QSFP28/QSFP

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Specifications	Alteon D-8600S	Alteon D-8600SL
HPP (high-performance package) – included	Includes memory upgrade to 256 GB, second power supply, and 4x 25-Gbps optics multimode SR	Includes memory upgrade to 256 GB, second power supply, and 4x 25-Gbps optics multimode SR
USB port	Yes	Yes
RS-232C console	RJ-45 serial connection	RJ-45 serial connection
Environmental specifications		
Power	Auto-range dual power supply, 80-plus Platinum certified AC: 90-240 V, 47-63 Hz Power consumption: 450W Dual power supply included DC power supply is optional	Auto-range dual power supply 80-plus Platinum certified AC: 90-240 V, 47-63 Hz Power consumption: 450W Dual power supply included DC power supply is optional
Heat dissipation	1535 BTU/hr	1535 BTU/hr
Dimensions	438 mm (17.24 in.) W x 521 mm (21 in.) D x 88 mm (3.4 in./1U) H EIA rack or standalone: 482 mm (19 in.)	438 mm (17.24 in.) W x 521 mm (21 in.) D x 88 mm (3.4 in./1U) H EIA rack or standalone: 482 mm (19 in.)
Weight	Dual power supply: 6.5 kg (14.3 lb)	Dual power supply: 6.5 kg (14.3 lb)
Operating environmental	Temperature: 0° to 40°C (32° to 104°F) Humidity: 10% to 90% noncondensing	Temperature: 0° to 40°C (32° to 104°F) Humidity: 10% to 90% noncondensing
Airflow direction	Front right/front left to back	Front right/front left to back

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Specifications	Alteon D-8600S	Alteon D-8600SL
Compliance and certifications		
Compliance		
RoHS2	Compliant (EU directive 2011/65/EU)	
Safety/EMC/EMI	FCC Part 15, Subpart B; ANSI C63.4:2014; ICES-003 Issue 6:2016 (updated Apr. 2017); CISPR 22:2008; CAN/CSA-CISPR 22-10; IEC 60950-1:2005/AMD1:2009; IEC 60950-1:2005/AMD2:2013; IEC 60950-1:2005; EN 60950-1:2006/A11:2009/A1:2010/A12:2011/A2:2013; IEC 62368-1:2014; EN 62368-1:2014/A11:2017; EN 55032:2015 +AC:2016 Class A; AS/NZS CISPR 32:2015, Class A; CISPR 32:2015+C1:2016, Class A; EN 55024:2010+A1:2015; EN 55035:2017; EN 61000-3-2:2014, Class A; EN 61000-3-3:2013; EN 61000-4-2:2009, EN 61000-4-3:2006 +A1:2008 +A2:2010; EN 61000-4-4:2012; EN 61000-4-5:2014; EN 61000-4-6:2014+AC:2015; EN 61000-4-11:2004+A1:2017; EN 300 386 V2.1.1 (2016-07)	
Certifications	CCC (China), UL (US, Canada), CE (Europe), FCC (US), KCC (Korea), EAC (Russia), VCCI (Japan), Anatel (Brazil)	

***High virtual ADC density requires a license upgrade.**

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Specifications	Alteon D-7700S	Alteon D-7700SL	Alteon D-7700DS
Performance			
Maximum Layer 4/ Layer 7 throughput	200 Gbps/125 Gbps	200 Gbps/125 Gbps	200 Gbps/125 Gbps
Layer 4 connections per second	2.5M	2.5M	2.5M
Maximum Layer 4 concurrent connections	184M	184M	184M
Layer 7 requests per second	4M	4M	4M
SSL performance*			
RSA CPS (2000 keys)	50K	101K	120K
ECC CPS (EC-P256)	30K	47K	70K
Bulk encryption throughput (Gbps)	45	45	45
Licenses			
Available throughput licenses	100 and 200 Gbps	100 and 200 Gbps	100 and 200 Gbps
Max number of virtual ADC instances**	64	64	64
Hardware specifications			
Processor	Intel 16-core CPU	Intel 16-core CPU	Intel 16-core CPU
Memory	96 GB, up to 384 GB	96 GB, up to 384 GB	96 GB, up to 384 GB
Storage	SSD 0.5 TB, 1 TB, 2 TB, 4 TB	SSD 0.5 TB, 1 TB, 2 TB, 4 TB	SSD 0.5 TB, 1 TB, 2 TB, 4 TB

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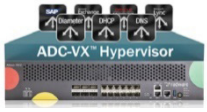
Specifications	Alteon D-7700S	Alteon D-7700SL	Alteon D-7700DS
Traffic ports	2x 100/40 GbE QSFP28 Up to 16x 25 GbE SFP28/ 20x 10 GbE SFP+	2x 100/40 GbE QSFP28 Up to 16x 25 GbE SFP28/ 20x 10 GbE SFP+	2x 100/40 GbE QSFP28 Up to 16x 25 GbE SFP28/ 20x 10 GbE SFP+
HPP (high-performance package) – included	Includes dual power supply 8x 10-Gbps pluggable optics multimode SR	Includes dual power supply 8x 10-Gbps pluggable optics multimode SR	Includes dual power supply 8x 10-Gbps pluggable optics multimode SR
USB port	Yes	Yes	Yes
RS-232C console	RJ-45 serial connection	RJ-45 serial connection	RJ-45 serial connection
Environmental specifications			
Power	Auto-range power supply 80-plus Platinum certified (AC PSU) AC: 100–240 V, 47–63 Hz Power consumption: 420W Dual power supply DC power supply is optional	Auto-range power supply 80-plus Platinum certified (AC PSU) AC: 100–240 V, 47–63 Hz Power consumption: 420W Dual power supply DC power supply is optional	Auto-range power supply 80-plus Platinum certified (AC PSU) AC: 100–240 V, 47–63 Hz Power consumption: 420W Dual power supply DC power supply is optional
Heat dissipation	1432 BTU/hr	1432 BTU/hr	1432 BTU/hr
Dimensions	438 mm (17.24 in.) W x 527 mm (20.74 in.) D x 88 mm (3.4 in./2U) H EIA rack or standalone: 482 mm (19 in.)	438 mm (17.24 in.) W x 527 mm (20.74 in.) D x 88 mm (3.4 in./2U) H EIA rack or standalone: 482 mm (19 in.)	438 mm (17.24 in.) W x 527 mm (20.74 in.) D x 88 mm (3.4 in./2U) H EIA rack or standalone: 482 mm (19 in.)
Weight	Dual power supply: 12 kg (26.4 lb)	Dual power supply: 12 kg (26.4 lb)	Dual power supply: 12 kg (26.4 lb)
Operating environmental	Temperature: 0° to 40°C (32° to 104°F) Humidity: 10% to 90% noncondensing	Temperature: 0° to 40°C (32° to 104°F) Humidity: 10% to 90% noncondensing	Temperature: 0° to 40°C (32° to 104°F) Humidity: 10% to 90% noncondensing
Airflow direction	Front to back	Front to back	Front to back
Minimum CFM	200	200	200

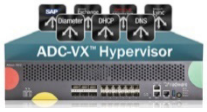
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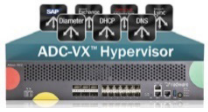
Specifications	Alteon D-7700S	Alteon D-7700SL	Alteon D-7700DS
Compliance and certifications			
Compliance			
RoHS2	Compliant (EU directive 2011/65/EU)		
Safety/EMC/EMI	FCC Part 15, Subpart B; ANSI C63.4:2014; ICES-003 Issue 6:2016 (updated Apr. 2017); CISPR 22:2008; CAN/CSA-CISPR 22-10; IEC 60950-1:2005/AMD1:2009; IEC 60950-1:2005/AMD2:2013; IEC 60950-1:2005; EN 60950-1:2006/A11:2009/A1:2010/A12:2011/A2:2013; IEC 62368-1:2014; EN 62368-1:2014/A11:2017; EN 55032:2015 +AC:2016 Class A; AS/NZS CISPR 32:2015, Class A; CISPR 32:2015+C1:2016, Class A; EN 55024:2010+A1:2015;EN 55035:2017; EN 61000-3-2:2014, Class A; EN 61000-3-3:2013; EN 61000-4-2:2009, EN 61000-4-3:2006 +A1:2008 +A2:2010; EN 61000-4-4:2012; EN 61000-4-5:2014; EN 61000-4-6:2014+AC:2015; EN 61000-4-11:2004+A1:2017; EN 300 386 V2.1.1 (2016-07)		
Certifications	CCC (China), TUV (US, Canada), CE (Europe), FCC (US), KCC (Korea), BSMI (Taiwan), EAC (Russia), VCCI (Japan), Anatel (Brazil)		

*S/SL/DS models include hardware SSL card.
**High virtual ADC density requires a license and RAM upgrade.

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Specifications	Alteon D-7100S	Alteon D-7100SL	Alteon D-7100DS
Performance			
Maximum Layer 4/ Layer 7 throughput	200 Gbps/125 Gbps	200 Gbps/125 Gbps	200 Gbps/125 Gbps
Layer 4 connections per second	2.5M	2.5M	2.5M
Maximum Layer 4 concurrent connections	184M	184M	184M
Layer 7 requests per second	4M	4M	4M
SSL performance*			
RSA CPS (2000 keys)	50K	101K	120K
ECC CPS (EC-P256)	30K	47K	70K
Bulk encryption throughput (Gbps)	45	45	45
Licenses			
Available throughput licenses	100 and 200 Gbps	100 and 200 Gbps	100 and 200 Gbps
Max number of virtual ADC instances**	64	64	64
Hardware specifications			
Processor	Intel 16-core CPU	Intel 16-core CPU	Intel 16-core CPU
Memory	96 GB, up to 384 GB	96 GB, up to 384 GB	96 GB, up to 384 GB

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Specifications	Alteon D-7100S	Alteon D-7100SL	Alteon D-7100DS
Storage	SSD 0.5 TB, 1 TB, 2 TB, 4 TB	SSD 0.5 TB, 1 TB, 2 TB, 4 TB	SSD 0.5 TB, 1 TB, 2 TB, 4 TB
Traffic ports	6x 40 GbE QSFP+ 12x 10 GbE SFP+	6x 40 GbE QSFP+ 12x 10 GbE SFP+	6x 40 GbE QSFP+ 12x 10 GbE SFP+
HPP (high-performance package) – included	Dual power supply 6x 10-Gbps pluggable optics multimode SR 2x 40-Gbps pluggable optics multimode SR	Dual power supply 6x 10-Gbps pluggable optics multimode SR 2x 40-Gbps pluggable optics multimode SR	Dual power supply 6x 10-Gbps pluggable optics multimode SR 2x 40-Gbps pluggable optics multimode SR
USB port	Yes	Yes	Yes
RS-232C console	RJ-45 serial connection	RJ-45 serial connection	RJ-45 serial connection
Environmental specifications			
Power	Auto-range power supply 80-plus Platinum certified AC: 100-240 V, 47-63 Hz Power consumption: 400W Dual power supply DC power supply is optional	Auto-range power supply 80-plus Platinum certified AC: 100-240 V, 47-63 Hz Power consumption: 400W Dual power supply DC power supply is optional	Auto-range power supply 80-plus Platinum certified AC: 100-240 V, 47-63 Hz Power consumption: 400W Dual power supply DC power supply is optional
Heat dissipation	1364 BTU/hr	1364 BTU/hr	1364 BTU/hr
Dimensions	438 mm (17.24 in.) W x 527 mm (20.74 in.) D x 88 mm (3.4 in./2U) H EIA rack or standalone: 482 mm (19 in.)	438 mm (17.24 in.) W x 527 mm (20.74 in.) D x 88 mm (3.4 in./2U) H EIA rack or standalone: 482 mm (19 in.)	438 mm (17.24 in.) W x 527 mm (20.74 in.) D x 88 mm (3.4 in./2U) H EIA rack or standalone: 482 mm (19 in.)
Weight	Dual power supply: 11.2 kg (24.7 lb)	Dual power supply: 11.7 kg (25.8 lb)	Dual power supply: 11.7 kg (25.8 lb)

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Specifications	Alteon D-7100S	Alteon D-7100SL	Alteon D-7100DS
Operating environmental	Temperature: 0° to 40°C (32° to 104°F) Humidity: 10% to 95% noncondensing	Temperature: 0° to 40°C (32° to 104°F) Humidity: 10% to 95% noncondensing	Temperature: 0° to 40°C (32° to 104°F) Humidity: 10% to 95% noncondensing
Airflow direction	Front to back	Front to back	Front to back
Minimum CFM	200	200	200

Compliance and certifications

Compliance	
RoHS2	Compliant (EU directive 2011/65/EU)
Safety/EMC/EMI	FCC Part 15, Subpart B; ANSI C63.4:2014; ICES-003 Issue 6:2016 (updated Apr. 2017); CISPR 22:2008; CAN/CSA-CISPR 22-10; IEC 60950-1:2005/AMD1:2009; IEC 60950-1:2005/AMD2:2013; IEC 60950-1:2005; EN 60950-1:2006/A11:2009/A1:2010/A12:2011/A2:2013; IEC 62368-1:2014; EN 62368-1:2014/A11:2017; EN 55032:2015 +AC:2016 Class A; AS/NZS CISPR 32:2015, Class A; CISPR 32:2015+C1:2016, Class A; EN 55024:2010+A1:2015; EN 55035:2017; EN 61000-3-2:2014, Class A; EN 61000-3-3:2013; EN 61000-4-2:2009, EN 61000-4-3:2006 +A1:2008 +A2:2010; EN 61000-4-4:2012; EN 61000-4-5:2014; EN 61000-4-6:2014+AC:2015; EN 61000-4-11:2004+A1:2017; EN 300 386 V2.1.1 (2016-07)
Certifications	CCC (China), TUV (US, Canada), CE (Europe), FCC (US), KCC (Korea), BSMI (Taiwan), EAC (Russia), VCCI (Japan), Anatel (Brazil)

*S/SL/DS models include hardware SSL card.

**High virtual ADC density requires a license and RAM upgrade.

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Specifications	Alteon D-6300F	Alteon D-6300M	Alteon D-6300HD
Performance			
Maximum Layer 4/ Layer 7 throughput	40 Gbps/40 Gbps	90 Gbps/90 Gbps	90 Gbps/90 Gbps
Layer 4 connections per second	1.4M	1.4M	1.4M
Maximum Layer 4 concurrent connections*	84M	84M	84M
Layer 7 requests per second	2.5M	2.5M	2.5M
SSL performance			
RSA CPS (2000 keys)	43K	9K**/43K	9K**/43K
ECC CPS (EC-P256)	30K	30K	30K
Bulk encryption throughput (Gbps)	24	24	24
Licenses			
Available throughput licenses	40 Gbps	60 and 90 Gbps	40, 60, and 90 Gbps
Max number of virtual ADC instances***	26	26	26
Hardware specifications			
Processor	Intel 6-core CPU	Intel 6-core CPU	Intel 6-core CPU
Memory	32 GB, up to 128 GB	32 GB, up to 128 GB	32 GB, up to 128 GB
Storage	SSD **0.5 TB**, 1 TB, 2 TB	SSD **0.5 TB**, 1 TB, 2 TB	SSD **0.5 TB**, 1 TB, 2 TB

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Specifications	Alteon D-6300F	Alteon D-6300M	Alteon D-6300HD
Traffic ports	4x 25 GbE (2x2) SFP28	Up to 8x 1 GbE (1x8) RJ-45 modular Up to 8x 10 GbE (2x4) SFP+ modular Up to 4x 25 GbE (2x2) SFP28 modular	24x 10 GbE SFP+
HPP (high-performance package) – included	Dual power supply Upgrade memory from 32 to 64 GB 2x 25-Gbps pluggable optics multimode SR	Dual power supply Upgrade memory from 32 to 64 GB	Dual power supply 6x 10-Gbps pluggable optics multimode SR
USB port	Yes	Yes	Yes
RS-232C console	RJ-45 serial connection	RJ-45 serial connection	RJ-45 serial connection
Environmental specifications			
Power	Auto-range power supply 80-plus Platinum certified AC: 90-240 V +-10%, 50/60 Hz +4%/- 6% Power consumption: 250W Dual power supply DC power supply is optional	Auto-range power supply 80-plus Platinum certified AC: 90-240 V +-10%, 50/60 Hz +4%/- 6% Power consumption: 250W Dual power supply DC power supply is optional	Auto-range power supply 80-plus Platinum certified AC: 90-240 V +-10%, 50/60 Hz +4%/- 6% Power consumption: 250W Dual power supply DC power supply is optional
Heat dissipation	480 BTU/hr	480 BTU/hr	480 BTU/hr
Dimensions	436 mm (17.1 in.) W x 406 mm (16 in.) D x 44 mm (1.7 in./1U) H EIA rack or standalone: 482 mm (19 in.)	436 mm (17.1 in.) W x 406 mm (16 in.) D x 44 mm (1.7 in./1U) H EIA rack or standalone: 482 mm (19 in.)	436 mm (17.1 in.) W x 406 mm (16 in.) D x 44 mm (1.7 in./1U) H EIA rack or standalone: 482 mm (19 in.)
Weight	Dual power supply: 6.5 kg (14.3 lb)	Dual power supply: 6.5 kg (14.3 lb)	Dual power supply: 6.5 kg (14.3 lb)

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Specifications	Alteon D-6300F	Alteon D-6300M	Alteon D-6300HD
Operating environmental	Temperature: 0° to 40°C (32° to 104°F) Humidity: 10% to 90% noncondensing	Temperature: 0° to 40°C (32° to 104°F) Humidity: 10% to 90% noncondensing	Temperature: 0° to 40°C (32° to 104°F) Humidity: 10% to 90% noncondensing
Airflow direction	Front right/front left to back	Front right/front left to back	Front right/front left to back

Compliance and certifications

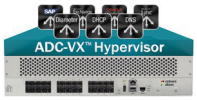
Compliance	
RoHS2	Compliant (EU directive 2011/65/EU)
Certifications	FCC (US), TUV (US, Canada), CE (Europe), VCCI (Japan), IC (Canada), (AU/NZ), EAC (Russia), KCC (Korea), BSMI (Taiwan), Anatel (Brazil), NOM (Mexico), UKCA (UK)

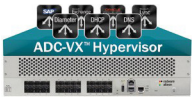
*High concurrent connections requires RAM upgrade.

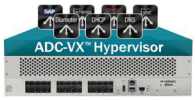
**Without Intel Quick Assist Technology (QAT) card.

***High virtual ADC density requires a license and RAM upgrade.

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Specifications	Alteon D-6024	Alteon D-6024S	Alteon D-6024SL
Performance			
Maximum Layer 4/ Layer 7 throughput	80 Gbps/74 Gbps	80 Gbps/74 Gbps	80 Gbps/74 Gbps
Layer 4 connections per second	1.4M	1.4M	1.4M
Maximum Layer 4 concurrent connections	82M	82M	82M
Layer 7 requests per second	2.55M	2.55M	2.55M
SSL performance			
RSA CPS (2000 keys)	7.6K	30K	53K
ECC CPS (EC-P256)	18K	20K	27.3K
Bulk encryption throughput (Gbps)	21	22	22
FIPS RSA CPS (2000 keys)*	35K	NA	NA
FIPS bulk encryption throughput (Gbps)*	24	NA	NA
Licenses			
Available throughput licenses	30, 60, and 80 Gbps	30, 60, and 80 Gbps	30, 60, and 80 Gbps
Max number of virtual ADC instances**	32	32	32

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Specifications	Alteon D-6024	Alteon D-6024S	Alteon D-6024SL
Hardware specifications			
Processor	Intel 6-core CPU	Intel 6-core CPU	Intel 6-core CPU
Memory	32 GB, up to 256 GB	32 GB, up to 256 GB	32 GB, up to 256 GB
Traffic ports	24x 10 GbE SFP+	24x 10 GbE SFP+	24x 10 GbE SFP+
HPP (high-performance package) – included	Includes 64 GB RAM, 500 GB SSD, dual power supply, 6x 10-Gbps pluggable optics multimode SR	Includes 64 GB RAM, 500 GB SSD, dual power supply, 6x 10-Gbps pluggable optics multimode SR	Includes 64 GB RAM, 500 GB SSD, dual power supply, 6x 10-Gbps pluggable optics multimode SR
USB port	Yes	Yes	Yes
RS-232C console	RJ-45 serial connection	RJ-45 serial connection	RJ-45 serial connection
Environmental specifications			
Power	Auto-range power supply 80-plus Platinum certified AC: 100-240 V, 47-63 Hz Power consumption: 250W Dual power supply DC power supply is optional	Auto-range power supply 80-plus Platinum certified AC: 100-240 V, 47-63 Hz Power consumption: 250W Dual power supply DC power supply is optional	Auto-range power supply 80-plus Platinum certified AC: 100-240 V, 47-63 Hz Power consumption: 250W Dual power supply DC power supply is optional
Heat dissipation	850 BTU/hr	850 BTU/hr	850 BTU/hr
Dimensions	436 mm (17.1 in.) W x 480 mm (18.9 in.) D x 88 mm (3.4 in./2U) H EIA rack or standalone: 482 mm (19 in.)	436 mm (17.1 in.) W x 480 mm (18.9 in.) D x 88 mm (3.4 in./2U) H EIA rack or standalone: 482 mm (19 in.)	436 mm (17.1 in.) W x 480 mm (18.9 in.) D x 88 mm (3.4 in./2U) H EIA rack or standalone: 482 mm (19 in.)
Weight	Dual power supply: 11.2 kg (24.7 lb)	Dual power supply: 11.7 kg (25.8 lb)	Dual power supply: 11.7 kg (25.8 lb)

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Specifications	Alteon D-6024	Alteon D-6024S	Alteon D-6024SL
Operating environmental	Temperature: 0° to 40°C (32° to 104°F) Humidity: 10% to 95% noncondensing	Temperature: 0° to 40°C (32° to 104°F) Humidity: 10% to 95% noncondensing	Temperature: 0°to 40°C (32° to 104°F) Humidity: 10% to 95% noncondensing
Airflow direction	Front to back	Front to back	Front to back
Minimum CFM	200	200	200
Compliance and certifications			
Compliance			
RoHS2	Compliant (EU directive 2011/65/EU)		
Safety/EMC/EMI	FCC Part 15, Class A; IC ICES-003; UL 60950-1:2007 R10.14; CAN/CSA-C22.2 No. 60950-1-07+A1:2011+A2:2014; EN 55022:2010/AC:2011 Class A; EN 61000-3-2:2014; EN 61000-3-3:2013; EN 55024:2010; IEC 61000-4-2:2008; IEC 61000-4-3:2006+A1:2007; IEC 61000-4-4:2012; IEC 61000-4-5:2014; IEC 61000-4-6:2013; IEC 61000-4-8:2009; IEC 61000-4-11:2004; IEC 61000-4-12:2006; IEC 60950-1:2005 (Second Edition) +Am 1:2009+Am 2:2013; EN 60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013; NEBS		
Certifications	CCC (China), TUV (US, Canada), CE (Europe), FCC (US), KCC (Korea), BSMI (Taiwan), EAC (Russia), VCCI (Japan), Anatel (Brazil), SDPPI (Indonesia)		

*FIPS 140-2 Level 3.

**High virtual ADC density requires a license and RAM upgrade.

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Specifications	Alteon D-5424SL	Alteon D-5820SL
Performance		
Maximum Layer 4/Layer 7 throughput	40 Gbps/32 Gbps	40 Gbps/32 Gbps
Layer 4 connections per second	525K	525K
Maximum Layer 4 concurrent connections	44M	44M
Layer 7 requests per second	930K	930K
SSL performance		
RSA CPS (2000 keys)	20K	20K
ECC CPS (EC-P256)	12K	12K
Bulk encryption throughput (Gbps)	10	10
Licenses		
Available throughput licenses	22 and 40 Gbps	22 and 40 Gbps
Max number of virtual ADC instances*	10	10
Hardware specifications		
Processor	Intel 12-core CPU	Intel 12-core CPU
Memory	32 GB	32 GB

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Specifications	Alteon D-5424SL	Alteon D-5820SL
Traffic ports	4x 25 GbE/10 GbE SFP28 16x 1 GbE SFP 8x 1 GbE RJ-45	4x 25/10 GbE SFP28 4x 10 GbE SFP+ 12x 1 GbE SFP 8x 1 GbE RJ-45
HPP (high-performance package)	Dual power supply, 2x 25-Gbps pluggable optics multimode SR, 2x 10-Gbps pluggable optics multimode SR	Dual power supply, 2x 25-Gbps pluggable optics multimode SR, 2x 10-Gbps pluggable optics multimode SR
USB port	Yes	Yes
RS-232C console	RJ-45 serial connection	RJ-45 serial connection
Power	Auto-range power supply 80-plus Platinum certified AC: 100-240 V, 50-60 Hz Power consumption is 125W Dual power supply	Auto-range power supply 80-plus Platinum certified AC: 100-240 V, 50-60 Hz Power consumption: 125W Dual power supply
Heat dissipation	427 BTU/hr	427 BTU/hr
Dimensions	481 mm (18.9 in.) W x 476 mm (18.7 in.) D x 44 mm (1.7 in./1U) H EIA rack or standalone: 481 mm (18.9 in.)	481 mm (18.9 in.) W x 476 mm (18.7 in.) D x 44 mm (1.7 in./1U) H EIA rack or standalone: 481 mm (18.9 in.)
Weight	Dual power supply: 7.5 kg (16.5 lb)	Dual power supply: 7.5 kg (16.5 lb)
Operating environment	Temperature: 0° to 40°C (32° to 104°F) Humidity: 5% to 95% noncondensing	Temperature: 0° to 40°C (32° to 104°F) Humidity: 5% to 95% noncondensing
Airflow direction	Front to back	Front to back
Minimum CFM	21.9	21.9

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Specifications	Alteon D-5424SL	Alteon D-5820SL
Compliance and certifications		
Compliance		
RoHS2	Compliant (EU directive 2011/65/EU)	
Safety/EMC/EMI	FCC Part 15, Subpart B, Class A; IC ICES-003:2016 Issue 6, Class A; ANSI C63.4:2014; UL 60950-1:2007 R10.14; CAN/CSA-C22.2 No. 60950-1-07 + A1:2011+A2:2014; UL 62368-1:2007 R10.14; CAN/CSA-C22.2 No. 62368-1-14; EN 55024:2010; EN 55032:2015 + AC:2016/CISPR 32:2015 +COR1:2016/AS/NZS CISPR 32:2015, Class A; EN 300 386 V2.1.1 (2016-07); EN 61000-3-2:2014; EN 61000-3-3:2013; EN 61000-4-2:2009; EN 61000-4-3:2006 +A1:2008 + A2:2010; EN 61000-4-4:2012; EN 61000-4-5:2014; EN 61000-4-6:2014; EN 61000-4-8:2010; EN 61000-4-11:2004	
Certifications	CCC (China), TUV (US, Canada), CE (Europe), FCC (US), KCC (Korea), BSMI (Taiwan), EAC (Russia), VCCI (Japan), Anatel (Brazil)	

*High virtual ADC density requires a license.

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Specifications	Alteon D-5208	Alteon D-5208S
Performance		
Maximum Layer 4/Layer 7 throughput	26 Gbps/20 Gbps	26 Gbps/20 Gbps
Layer 4 connections per second	630K	630K
Maximum Layer 4 concurrent connections	50M	50M
Layer 7 requests per second	850K	850K
SSL performance		
RSA CPS (2000 keys)	2.3K	20.5K
ECC CPS (EC-P256)	9K	12K
Bulk encryption throughput (Gbps)	10	10
Licenses		
Available throughput licenses	6, 12, and 26 Gbps	6, 12, and 26 Gbps
Max number of virtual ADC instances*	22	22
Hardware specifications		
Processor	Intel quad-core CPU	Intel quad-core CPU
Memory	16 GB, up to 32 GB	16 GB, up to 32 GB
Traffic ports	2x 10 GbE SFP+ 8x 1 GbE RJ-45	2x 10 GbE SFP+ 8x 1 GbE RJ-45

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Specifications	Alteon D-5208	Alteon D-5208S
HPP (high-performance package) – included	Includes 32 GB RAM upgrade, 500 GB SSD, dual power supply, 2x 10-Gbps pluggable optics multimode SR	Includes 32 GB RAM upgrade, 500 GB SSD, dual power supply, 2x 10-Gbps pluggable optics multimode SR
USB port	Yes	Yes
RS-232C console	RJ-45 serial connection	RJ-45 serial connection
Environmental specifications		
Power	Auto-range power supply 80-plus Platinum certified AC: 100-240 V, 47-63 Hz Power consumption: 140W Dual power supply DC power supply is optional	Auto-range power supply 80-plus Platinum certified AC: 100-240 V, 47-63 Hz Power consumption: 140W Dual power supply DC power supply is optional
Heat dissipation	480 BTU/hr	480 BTU/hr
Dimensions	436 mm (17.1 in.) W x 406 mm (16 in.) D x 44 mm (1.7 in./1U) H EIA rack or standalone: 482 mm (19 in.)	436 mm (17.1 in.) W x 406 mm (16 in.) D x 44 mm (1.7 in./1U) H EIA rack or standalone: 482 mm (19 in.)
Weight	Dual power supply: 7 kg (15.4 lb)	Dual power supply: 7.5 kg (16.5 lb)
Operating environmental	Temperature: 0° to 40°C (32° to 104°F) Humidity: 5% to 95% noncondensing	Temperature: 0° to 40°C (32° to 104°F) Humidity: 5% to 95% noncondensing
Airflow direction	Front right/front left to back	Front right/front left to back
Minimum CFM	50	50

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Specifications	Alteon D-5208	Alteon D-5208S
Compliance and certifications		
Compliance		
RoHS2	Compliant (EU directive 2011/65/EU)	
Safety/EMC/EMI	FCC Part 15, Class A; IC ICES-003; UL 60950-1:2007 R12.11; CAN/CSA-C22.2 No. 60950-1-07 + A1:2011; EN 60950-1:2006 + A11:2009 + A1:2010+A12:2011 + A2:2013; IEC 60950-1:2005 (Second Edition) + Am 1:2009 + Am 2:2013; EN 60950-1:2006 + A11:2009; AS/NZS 60950.1:2015	
Certifications	CCC (China), TUV (US, Canada), CE (Europe), FCC (US), KCC (Korea), BSMI (Taiwan), EAC (Russia), VCCI (Japan), Anatel (Brazil), SDPPI (Indonesia)	

*High virtual ADC density requires a license and RAM upgrade.

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Specifications	Alteon D-4208S
Maximum Layer 4/Layer 7 throughput	12 Gbps/11 Gbps
Layer 4 connections per second	183K
Maximum Layer 4 concurrent connections	24M
Layer 7 requests per second	290K
RSA CPS (2000 keys)	7.4K
ECC CPS (EC-P256)	4.3K
Bulk encryption throughput (Gbps)	3.5
Available throughput licenses	6 and 12 Gbps
Max number of virtual ADC instances*	NA
Processor	Intel quad-core CPU
Memory	8 GB, up to 16 GB
Traffic ports	2x 10 GbE SFP+ 8x 1 GbE RJ-45
HPP (high-performance package)	NA
USB port	Yes
RS-232C console	RJ-45 serial connection
Power	Auto-range power supply 80 plus Platinum certified AC: 100-240 V, 47-63 Hz Power consumption: 55W Dual power supply

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Specifications	Alteon D-4208S
Heat dissipation	188 BTU/hr
Dimensions	436 mm (17.2 in.) W x 336 mm (13.2 in.) D x 44 mm (1.7 in./1U) H EIA rack or standalone: 482 mm (19 in.)
Weight	Dual power supply: 5.4 kg (11.9 lb)
Operating environmental	Temperature: 0° to 40°C (32° to 104°F) Humidity: 5% to 95% noncondensing
Airflow direction	Front to back
Minimum CFM	21.9
Compliance & certifications	
Compliance	
RoHS2	Compliant (EU directive 2011/65/EU)
Safety/EMC/EMI	FCC Part 15, Subpart B, Class A; IC ICES-003:2016 Issue 6, Class A; ANSI C63.4:2014; UL 60950- 1:2007 R10.14; CAN/CSA-C22.2 No. 60950-1-07+A1:2011+A2:2014; UL 62368-1:2007 R10.14; CAN/CSA-C22.2 No. 62368-1-14; EN 55024:2010; EN 55032:2015 +AC:2016/CISPR 32:2015 +COR1:2016/AS/NZS CISPR 32:2015, Class A; EN 300 386 V2.1.1 (2016-07); EN 61000-3-2:2014; EN 61000-3-3:2013; EN 61000-4-2:2009; EN 61000-4-3:2006 +A1:2008 +A2:2010; EN 61000-4-4:2012; EN 61000-4-5:2014; EN 61000-4-6:2014; EN 61000-4-8:2010; EN 61000-4-11:2004
Certifications	CCC (China), TUV (US, Canada), CE (Europe), FCC (US), KCC (Korea), BSMI (Taiwan), EAC (Russia), VCCI (Japan), Anatel (Brazil)

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