

Cisco Secure ADC: Alteon[®] D-Line Technical Specifications



Contents

Alteon D-9800, Alteon D-9800S, Alteon D-9800SL	3
Alteon D-8420, Alteon D-8420S, Alteon D-8420SL	4
Alteon D-7220S, Alteon D-7220SL	5
Alteon D-7612S, Alteon D-7612SL	6
Alteon D-6420S, Alteon D-6420SL	7
Alteon D-6024, AlteonD- 6024S, Alteon D-6024SL	8
Alteon D-5820S, Alteon D-5820SL	9
Alteon D-5424S, Alteon D-5424SL	10
Alteon D-5208, Alteon D-5208S	11
Alteon 4208, Alteon 4208S	12



Specifications	Alteon® D-9800	Alteon D-9800S	Alteon D-9800SL
Performance			
Maximum L4/L7 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 (2K keys)	35K	100K	196K
ECC CPS (P256)	35K	50K	115K
SSL bulk encryption throughput Gbps	30	50	85
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
HW specifications			
Processor	2 x Intel 18-core CPU	2 x Intel 18-core CPU	2 x Intel 18-core CPU
Memory	192GB	192GB	192GB
Traffic ports	8 x 100 GE / 40 GE / 25 GE / 10 GE QSFP28	8 x 100 GE / 40 GE / 25 GE / 10 GE QSFP28	8 x 100 GE / 40 GE / 25 GE / 10 GE QSFP28
HPP (high-performance package)	N/A	N/A	N/A
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/h	1800 BTU/h	1800 BTU/h
Dimensions	445 mm (17.54") W x 730 mm (28.75") D x 87 mm (3.44" / 2U) H	445 mm (17.54") W x 730 mm (28.75") D x 87 mm (3.44" / 2U) H	445 mm (17.54") W x 730 mm (28.75") D x 87 mm (3.44" / 2U) H
Weight	14.8 kg (32.6 lbs)	15 kg (33 lbs)	15.2 kg (33.5 lbs)
Operating environmental	Temperature: 10-40°C (50-104°F) Humidity: 8% to 90% noncondensing	Temperature: 10-40°C (50-104°F) Humidity: 8% to 90% noncondensing	Temperature: 10-40°C (50-104°F) Humidity: 8% to 90% noncondensing
Airflow direction	Front-to-Back	Front-to-Back	Front-to-Back
Compliance & 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)		

*High vADC density requires a license.



Specifications	Alteon D-8420	Alteon D-8420S	Alteon D-8420SL
Performance			
Maximum L4/L7 throughput	160 Gbps / 140 Gbps	160 Gbps / 140 Gbps	160 Gbps / 140 Gbps
Layer 4 connections per second	4.1M	4.1M	4.1M
Maximum Layer 4 concurrent connections	318M	318M	318M
Layer 7 requests per second	5.4M	5.4M	5.4M
SSL performance			
RSA CPS (2K keys)	13.3K	50K	98K
ECC CPS (EC-P256)	47K	47K	47K
Bulk encryption (Gbps)	42	48	48
Licenses			
Available throughput licenses	160 Gbps	160 Gbps	160 Gbps
Max number of virtual ADC instances*	100	100	100
HW specifications			
Processor	2 x Intel 10-core CPU	2 x Intel 10-core CPU	2 x Intel 10-core CPU
Memory	128GB / up to 256GB	128GB / up to 256GB	128GB / up to 256GB
Traffic ports	4 x 40 GbE QSFP+ 20 x 10 GbE SFP+	4 x 40 GbE QSFP+ 20 x 10 GbE SFP+	4 x 40 GbE QSFP+ 20 x 10 GbE SFP+
HPP (high-performance package)	Includes, 500GB SSD, dual power supply, 6 x 10 Gbps pluggable optics multimode SR, 2 x 40 Gbps pluggable optics multimode SR	Includes, 500GB SSD, dual power supply, 6 x 10 Gbps pluggable optics multimode SR, 2 x 40 Gbps pluggable optics multimode SR	Includes, 500GB SSD, dual power supply, 6 x 10 Gbps pluggable optics multimode SR, 2 x 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 certified AC: 100-240 V, 47-63 Hz Power consumption: 670W dual power supply is optional DC power supply is optional	Auto-range power supply 80 plus certified AC: 100-240 V, 47-63 Hz Power consumption: 670W Dual power supply is optional DC power supply is optional	Auto-range power supply 80 plus certified AC: 100-240 V, 47-63 Hz Power consumption: 670W Dual power supply is optional DC power supply is optional
Heat dissipation	2285 BTU/h	2285 BTU/h	2285 BTU/h
Dimensions	426 mm (16.7") W x 600 mm (23.6") D x 88 mm (3.4" / 2U) H EIA Rack or Standalone: 482 mm (19")	426 mm (16.7") W x 600 mm (23.6") D x 88 mm (3.4" / 2U) H EIA Rack or Standalone: 482 mm (19")	426 mm (16.7") W x 600 mm (23.6") D x 88 mm (3.4" / 2U) H EIA Rack or Standalone: 482 mm (19")
Weight	Single power supply: 15 kg (33 lbs) Dual power supply: 16.15 kg (35.53 lbs)	Single power supply: 15.5 kg (34.2 lbs) Dual power supply: 16.65 kg (36.63 lbs)	Single power supply: 15.5 kg (34.2 lbs) Dual power supply: 16.65 kg (36.63 lbs)
Operating environmental	Temperature: 0-40°C (32-104°F) Humidity: 10% to 95% noncondensing	Temperature: 0-40°C (32-104°F) Humidity: 10% to 95% noncondensing	Temperature: 0-40°C (32-104°F) Humidity: 10% to 95% noncondensing
Airflow direction	Front-to-Back	Front-to-Back	Front-to-Back
Minimum CFM	200	200	200
Compliance & certifications			
Compliance			
RoHS2	Compliant (EU directive 2011/65/EU)		
Safety/EMC/EMI	FCC Part 15B (Class A); ANSI C63.4:2014; CISPR 32:2012/2015, Class A; AS/NZS CISPR 32:2013/2015, Class A; 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; AS/NZS 60950.1:2015; IEC 62368-1:2014; EN 62368-1:2014/A11:2017; AS/NZS 62368.1:2018; EN 300 386 V2.1.1 (2016-07), Class A; EN 55032:2015 + AC:2016; 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		
Certifications	CCC (China), UL (US, Canada), CE (Europe), FCC (US), KCC (Korea), EAC (Russia), VCCI (Japan), Anatel (Brazil)		

*High vADC density requires a license and RAM upgrade.



Specifications	Alteon D-7220S	Alteon D-7220SL
Performance		
Maximum L4/L7 throughput	200 Gbps / 125 Gbps	200 Gbps / 125 Gbps
Layer 4 connections per second	2.5M	2.5M
Maximum Layer 4 concurrent connections	184M	184M
Layer 7 requests per second	4M	4M
SSL performance		
RSA CPS (2K keys)	50K	101K
ECC CPS (EC-P256)	30K	47K
Bulk encryption (Gbps)	45	45
Licenses		
Available throughput licenses	200 Gbps	200 Gbps
Max number of virtual ADC instances*	64	64
HW specifications		
Processor	Intel 12-core CPU	Intel 12-core CPU
Memory	96GB / up to 192GB	96GB / up to 192GB
Traffic ports	2 x 100 GbE QSFP28 20 x 25 GbE SFP28 / 10 GbE SFP+	2 x 100 GbE QSFP28 20 x 25 GbE SFP28 / 10 GbE SFP+
HPP (high-performance package)	Includes 500GB SSD, dual power supply 8 x 10 Gbps pluggable optics multimode SR	Includes 500GB SSD, dual power supply 8 x 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 certified (AC PSU) AC: 100-240 V, 47-63 Hz Power consumption: 420W Dual power supply is optional DC power supply is optional	Auto-range power supply 80 plus certified (AC PSU) AC: 100-240 V, 47-63 Hz Power consumption: 420W Dual power supply is optional DC power supply is optional
Heat dissipation	1432 BTU/h	1432 BTU/h
Dimensions	438 mm (17.24") W x 438 mm (17.24") D x 88 mm (3.4" / 2U) H EIA Rack or Standalone: 482 mm (19")	438 mm (17.24") W x 438 mm (17.24") D x 88 mm (3.4" / 2U) H EIA Rack or Standalone: 482 mm (19")
Weight	Single power supply: 11 kg (24.2 lbs) Dual power supply: 12 kg (26.4 lbs)	Single power supply: 11 kg (24.2 lbs) Dual power supply: 12 kg (26.4 lbs)
Operating environmental	Temperature: 0-40° C (32-104° F) Humidity: 5% to 95% noncondensing	Temperature: 0-40° C (32-104° F) Humidity: 5% to 95% noncondensing
Airflow direction	Front-to-Back	Front-to-Back
Minimum CFM	200	200
Compliance & 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), BSMI (Taiwan), EAC (Russia), VCCI (Japan), Anatel (Brazil)	

*High vADC density requires a license and RAM upgrade.



Specifications	Alteon D-7612S	Alteon D-7612SL
Performance		
Maximum L4 / L7 throughput	200 Gbps / 125 Gbps	200 Gbps / 125 Gbps
Layer 4 connections per second	2.5M	2.5M
Maximum Layer 4 concurrent connections	184M	184M
Layer 7 requests per second	4M	4M
SSL performance		
RSA CPS (2K keys)	50K	101K
ECC CPS (EC-P256)	30K	47K
Bulk encryption (Gbps)	45	45
Licenses		
Available throughput licenses	160 and 200 Gbps	160 and 200 Gbps
Max number of virtual ADC instances*	64	64
HW specifications		
Processor	Intel 12-core CPU	Intel 12-core CPU
Memory	96GB / up to 192GB	96GB / up to 192GB
Traffic ports	6 x 40 GbE QSFP+ 6 x 10 GbE SFP+	6 x 40 GbE QSFP+ 12 x 10 GbE SFP+
HPP (high-performance package)	Includes 500GB SSD, dual power supply, 6 x 10 Gbps pluggable optics multimode SR 2 x 40 Gbps pluggable optics multimode SR	Includes 500GB SSD, dual power supply, 6 x 10 Gbps pluggable optics multimode SR 2 x 40 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 certified (AC PSU) AC: 100-240 V, 47-63 Hz Power consumption: 400W Dual power supply is optional DC power supply is optional	Auto-range power supply 80 plus certified (AC PSU) AC: 100-240 V, 47-63 Hz Power consumption: 400W Dual power supply is optional DC power supply is optional
Heat dissipation	1364 BTU / h	1364 BTU / h
Dimensions	438 mm (17.24") W x 438 mm (17.24") D x 88 mm (3.4" / 2U) H EIA Rack or Standalone: 482 mm (19")	438 mm (17.24") W x 438 mm (17.24") D x 88 mm (3.4" / 2U) H EIA Rack or Standalone: 482 mm (19")
Weight	Single power supply: 11 kg (24.2 lbs) Dual power supply: 12 kg (26.4 lbs)	Single power supply: 11 kg (24.2 lbs) Dual power supply: 12 kg (26.4 lbs)
Operating environmental	Temperature: 0-40°C (32-104°F) Humidity: 5% to 95% noncondensing	Temperature: 0-40°C (32-104°F) Humidity: 5% to 95% noncondensing
Airflow direction	Front-to-Back	Front-to-Back
Minimum CFM	200	200
Compliance & 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), BSMI (Taiwan), EAC (Russia), VCCI (Japan), Anatel (Brazil)	

*High vADC density requires a license and RAM upgrade.



Specifications	Alteon D-6420S	Alteon D-6420SL
Performance		
Maximum L4/L7 throughput	80 Gbps / 71 Gbps	80 Gbps / 71 Gbps
Layer 4 connections per second	1.4M	1.4M
Maximum Layer 4 concurrent connections	184M	184M
Layer 7 requests per second	1.95M	1.95M
SSL performance		
RSA CPS (2K keys)	30K	42K
ECC CPS (EC-P256)	20K	25.7K
Bulk encryption (Gbps)	17	17
Licenses		
Available throughput capacity licenses	60 and 80 Gbps	60 and 80 Gbps
Max number of virtual ADC instances*	64	64
HW specifications		
Processor	2 x Intel 6-core CPU	2 x Intel 6-core CPU
Memory	32GB / up to 256GB	32GB / up to 256GB
Traffic ports	4 x 40 GbE QSFP+ 20 x 10 GbE SFP+	4 x 40 GbE QSFP+ 20 x 10 GbE SFP+
HPP (high-performance package)	Includes 64GB RAM upgrade, 500GB SSD, dual power supply, 6 x 10 Gbps pluggable optics multimode SR, 2 x 40 Gbps pluggable optics multimode SR	Includes 64GB RAM upgrade, 500GB SSD, dual power supply, 6 x 10 Gbps pluggable optics multimode SR, 2 x 40 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 certified AC: 100-240 V, 47-63 Hz Power consumption: 600W Dual power supply is optional DC power supply is optional	Auto-range power supply 80 plus certified AC: 100-240 V, 47-63 Hz Power consumption: 600W Dual power supply is optional DC power supply is optional
Heat dissipation	2050 BTU/h	2050 BTU/h
Dimensions	426 mm (16.7") W x 537 mm (21.1") D x 88 mm (3.4" / 2U) H EIA Rack or Standalone: 482 mm (19")	426 mm (16.7") W x 537 mm (21.1") D x 88 mm (3.4" / 2U) H EIA Rack or Standalone: 482 mm (19")
Weight	Single power supply: 13.7 kg (30.2 lbs) Dual power supply: 14.85 kg (32.73 lbs)	Single power supply: 13.7 kg (30.2 lbs) Dual power supply: 14.85 kg (32.73 lbs)
Operating environmental	Temperature: 0-40°C (32-104°F) Humidity: 10% to 95% noncondensing	Temperature: 0-40°C (32-104°F) Humidity: 10% to 95% noncondensing
Airflow direction	Front-to-Back	Front-to-Back
Minimum CFM	200	200
Compliance & certifications		
Compliance		
RoHS2	Compliant (EU directive 2011/65/EU)	
Safety/EMC/EMI	FCC Part 15, Subpart B, Class A; 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; IEC 60950-1:2005 (Second Edition) + Am 1:2009; EN 60950-1:2006 + A11:2009 + A1:2010; EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011; EN 60950-1:2006 + A11:2009; ICES-003, Issue 5:2012, Class A; NEBS	
Certifications	CCC (China), TUV (US, Canada), CE (Europe), FCC (US), KCC (Korea), BSMI (Taiwan), EAC (Russia), VCCI (Japan), Anatel (Brazil), SDPPI (Indonesia)	

*High vADC density requires a license and RAM upgrade.



Specifications	Alteon D-6024	Alteon D-6024S	Alteon D-6024SL
Performance			
Maximum L4/L7 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 (2K keys)	7.6K	30K	53K
ECC CPS (EC-P256)	18K	20K	27.3K
Bulk encryption (Gbps)	21	22	22
FIPS RSA CPS (2k keys)**	35K	N/A	N/A
FIPS bulk encryption (Gbps)**	24	N/A	N/A
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
HW specifications			
Processor	Intel 6-core CPU	Intel 6-core CPU	Intel 6-core CPU
Memory	32GB / up to 256GB	32GB / up to 256GB	32GB / up to 256GB
Traffic ports	24 x 10 GbE SFP+	24 x 10 GbE SFP+	24 x 10 GbE SFP+
HPP (high-performance package)	Includes 64GB RAM, 500GB SSD, dual power supply, 6 x 10 Gbps pluggable optics multimode SR	Includes 64GB RAM, 500GB SSD, dual power supply, 6 x 10 Gbps pluggable optics multimode SR	Includes 64GB RAM, 500GB SSD, dual power supply, 6 x 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 certified AC: 100-240 V, 47-63 Hz Power consumption: 250W Dual power supply is optional DC power supply is optional	Auto-range power supply 80 plus certified AC: 100-240 V, 47-63 Hz Power consumption: 250W Dual power supply is optional DC power supply is optional	Auto-range power supply 80 plus certified AC: 100-240 V, 47-63 Hz Power consumption: 250W Dual power supply is optional DC power supply is optional
Heat dissipation	850 BTU/h	850 BTU/h	850 BTU/h
Dimensions	436 mm (17.1") W x 480 mm (18.9") D x 88 mm (3.4" / 2U) H EIA Rack or Standalone: 482 mm (19")	436 mm (17.1") W x 480 mm (18.9") D x 88 mm (3.4" / 2U) H EIA Rack or Standalone: 482 mm (19")	436 mm (17.1") W x 480 mm (18.9") D x 88 mm (3.4" / 2U) H EIA Rack or Standalone: 482 mm (19")
Weight	Single power supply: 10.5 kg (23.1 lbs) Dual power supply: 11.2 kg (24.7 lbs)	Single power supply: 11 kg (24.2 lbs) Dual power supply: 11.7 kg (25.8 lbs)	Single power supply: 11 kg (24.2 lbs) Dual power supply: 11.7 kg (25.8 lbs)
Operating environmental	Temperature: 0-40°C (32-104°F) Humidity: 10% to 95% noncondensing	Temperature: 0-40°C (32-104°F) Humidity: 10% to 95% noncondensing	Temperature: 0-40°C (32-104°F) Humidity: 10% to 95% noncondensing
Airflow direction	Front-to-Back	Front-to-Back	Front-to-Back
Minimum CFM	200	200	200
Compliance & 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)		

*High vADC density requires a license and RAM upgrade.

**-FIPS 140-2 Level 3



Specifications	Alteon D-5820S	Alteon D-5820SL
Performance		
Maximum L4/L7 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 (2K keys)	10K	20K
ECC CPS (EC-P256)	7K	12K
Bulk encryption (Gbps)	10	10
Licenses		
Available throughput licenses	12, 22, and 40 Gbps	12, 22, and 40 Gbps
Max number of virtual ADC instances*	10	10
HW specifications		
Processor	Intel 12-core CPU	Intel 12-core CPU
Memory	32GB	32GB
Traffic ports	4 x 25 / 10 GE SFP28 4 x 10 GE SFP+ 12 x 1 GE SFP 8 x 1 GE RJ45	4 x 25 / 10 GE SFP28 4 x 10 GE SFP+ 12 x 1 GE SFP 8 x 1 GE RJ45
HPP (high-performance package)	N/A	N/A
USB port	Yes	Yes
RS-232C console	RJ-45 Serial Connection	RJ-45 Serial Connection
Power	Auto-range power supply 80 plus certified AC: 100-240Vac, 50-60 Hz Power consumption is 125W Dual power supply is optional	Auto-range power supply 80 plus certified AC: 100-240Vac, 50-60 Hz Power consumption is 125W Dual power supply is optional
Heat dissipation	427 BTU/h	427 BTU/h
Dimensions	481 mm (18.9") W x 476 mm (18.7") D x 44 mm (1.7"/1U) H EIA Rack or Standalone: 481 mm (18.9")	481 mm (18.9") W x 476 mm (18.7") D x 44 mm (1.7"/1U) H EIA Rack or Standalone: 481 mm (18.9")
Weight	Single power supply: 6.8 kg (15 lbs) Dual power supply: 7.5 kg (16.5 lbs)	Single power supply: 6.8 kg (15 lbs) Dual power supply: 7.5 kg (16.5 lbs)
Operating environment	Temperature: 0-40°C (32-104°F) Humidity: 5% to 95% noncondensing	Temperature: 0-40°C (32-104°F) Humidity: 5% to 95% noncondensing
Airflow direction	Front-to-Back	Front-to-Back
Minimum CFM	21.9	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)	

*High vADC density requires a license.



Specifications	Alteon D-5424S	Alteon D-5424SL
Performance		
Maximum L4/L7 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 (2K keys)	10K	20K
ECC CPS (EC-P256)	7K	12K
Bulk encryption (Gbps)	10	10
Licenses		
Available throughput licenses	12, 22, and 40 Gbps	12, 22, and 40 Gbps
Max number of virtual ADC instances*	10	10
HW specifications		
Processor	Intel 12-core CPU	Intel 12-core CPU
Memory	32GB	32GB
Traffic ports	4 x 25 GE / 10 GE SFP28 16 x 1 GE SFP 8 x 1 GE RJ45	4 x 25 GE / 10 GE SFP28 16 x 1 GE SFP 8 x 1 GE RJ45
HPP (high-performance package)	N/A	N/A
USB port	Yes	Yes
RS-232C console	RJ-45 Serial Connection	RJ-45 Serial Connection
Power	Auto-range power supply 80 plus certified AC: 100-240Vac, 50-60 Hz Power consumption is 125W Dual power supply is optional	Auto-range power supply 80 plus certified AC: 100-240Vac, 50-60 Hz Power consumption is 125W Dual power supply is optional
Heat dissipation	427 BTU/h	427 BTU/h
Dimensions	481 mm (18.9") W x 476 mm (18.7") D x 44 mm (1.7"/1U) H EIA Rack or Standalone: 481 mm (18.9")	481 mm (18.9") W x 476 mm (18.7") D x 44 mm (1.7"/1U) H EIA Rack or Standalone: 481 mm (18.9")
Weight	Single power supply: 6.8 kg (15 lbs) Dual power supply: 7.5 kg (16.5 lbs)	Single power supply: 6.8 kg (15 lbs) Dual power supply: 7.5 kg (16.5 lbs)
Operating environment	Temperature: 0-40°C (32-104°F) Humidity: 5% to 95% noncondensing	Temperature: 0-40°C (32-104°F) Humidity: 5% to 95% noncondensing
Airflow direction	Front-to-Back	Front-to-Back
Minimum CFM	21.9	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)	

*High vADC density requires a license.



Specifications	Alteon D-5208	Alteon D-5208S
Performance		
Maximum L4/L7 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 (2K keys)	2.3K	20.5K
ECC CPS (EC-P256)	9K	12K
Bulk encryption (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
HW specifications		
Processor	Intel quad-core CPU	Intel quad-core CPU
Memory	16GB / up to 32GB	16GB / up to 32GB
Traffic ports	2 x 10 GbE SFP+ 8 x 1 GbE RJ45	2 x 10 GbE SFP+ 8 x 1 GbE RJ45
HPP (high-performance package)	Includes 32GB RAM upgrade, 500GB SSD, dual power supply, 2 x 10 Gbps pluggable optics multimode SR	Includes 32GB RAM upgrade, 500GB SSD, dual power supply, 2 x 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 certified AC: 100-240V, 47-63 Hz Power consumption: 140W Dual power supply is optional DC power supply is optional	Auto-range power supply 80 plus certified AC: 100-240V, 47-63 Hz Power consumption: 140W Dual power supply is optional DC power supply is optional
Heat dissipation	480 BTU/h	480 BTU/h
Dimensions	436 mm (17.1") W x 406 mm (16") D x 44 mm (1.7") / 1U) H EIA Rack or Standalone: 482 mm (19")	436 mm (17.1") W x 406 mm (16") D x 44 mm (1.7") / 1U) H EIA Rack or Standalone: 482 mm (19")
Weight	Single power supply: 6 kg (13.2 lbs) Dual power supply: 7 kg (15.4 lbs)	Single power supply: 6.5 kg (14.3 lbs) Dual power supply: 7.5 kg (16.5 lbs)
Operating environmental	Temperature: 0-40°C (32-104°F) Humidity: 5% to 95% noncondensing	Temperature: 0-40°C (32-104°F) Humidity: 5% to 95% noncondensing
Airflow direction	Front-Right/Front-Left-to-Back	Front-Right/Front-Left-to-Back
Minimum CFM	50	50
Compliance & 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 vADC density requires a license and RAM upgrade.



Specifications	Alteon D 4208	Alteon D 4208S
Performance		
Maximum L4/L7 throughput	12 Gbps / 11 Gbps	12 Gbps / 11 Gbps
Layer 4 connections per second	183K	183K
Maximum Layer 4 concurrent connections	24M	24M
Layer 7 requests per second	290K	290K
SSL performance		
RSA CPS (2K keys)	3K	7.4K
ECC CPS (EC-P256)	3K	4.3K
Bulk encryption (Gbps)	3.5	3.5
Licenses		
Available throughput licenses	6 and 12 Gbps	6 and 12 Gbps
Max number of virtual ADC instances*	N/A	N/A
HW specifications		
Processor	Intel quad-core CPU	Intel quad-core CPU
Memory	8GB / up to 16GB	8GB / up to 16GB
Traffic ports	"2 x 10 GbE SFP+ 8 x 1 GbE RJ45"	"2 x 10 GbE SFP+ 8 x 1 GbE RJ45"
HPP (high-performance package)	N/A	N/A
USB port	Yes	Yes
RS-232C console	RJ-45 Serial Connection	RJ-45 Serial Connection
Environmental specifications		
Power	Auto-range power supply 80 plus certified (dual PS version) AC: 100-240V, 47-63 Hz Power consumption: 55W Dual power supply is optional	Auto-range power supply 80 plus certified (dual PS version) AC: 100-240V, 47-63 Hz Power consumption: 55W Dual power supply is optional
Heat dissipation	188 BTU/h	188 BTU/h
Dimensions	436 mm (17.2") W x 336 mm (13.2") D x 44 mm (1.7" / 1U) H EIA Rack or Standalone: 482 mm (19")	436 mm (17.2") W x 336 mm (13.2") D x 44 mm (1.7" / 1U) H EIA Rack or Standalone: 482 mm (19")
Weight	Single power supply: 4.23 kg (7.1 lbs) Dual power supply: 5.4 kg (11.9 lbs)	Single power supply: 4.23 kg (7.1 lbs) Dual power supply: 5.4 kg (11.9 lbs)
Operating environmental	Temperature: 0-40° C (32-104° F) Humidity: 5% to 95% noncondensing	Temperature: 0-40° C (32-104° F) Humidity: 5% to 95% noncondensing
Airflow direction	Front-to-Back	Front-to-Back
Minimum CFM	21.9	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)	

*High vADC density requires a license and RAM upgrade.

Alteon is a registered trademark of Radware, Inc.

© 2021 Cisco and/or its affiliates. All rights reserved. Cisco and the Cisco logo are trademarks or registered trademarks of Cisco and/or its affiliates in the U.S. and other countries. To view a list of Cisco trademarks, go to this URL: www.cisco.com/go/trademarks. Third-party trademarks mentioned are the property of their respective owners. The use of the word partner does not imply a partnership relationship between Cisco and any other company. 3/21