Alteon Tech Specs

This paper provides technical information about the hardware platforms that Alteon offering ships on.

Specifications	 Alteon 5208	 Alteon 6024	 Alteon 6420	 Alteon 8420
Available throughput licenses	6, 12 and 26 Gbps	30, 40, 60 and 80 Gbps	30, 40 and 80 Gbps	100 and 160 Gbps
Number of virtual ADC instances	Up to 24 instances	Up to 32 instances	Up to 64 instances	Up to 100 instances
Layer 4 connections per second	630K CPS	1.39M CPS	1.4M CPS	4.1M CPS
Maximum Layer 4 concurrent connections	12 Million Connections	20 Million Connections	44 Million Connections	76 Million Connections
Layer 7 requests per second	850K RPS	2.55M RPS	1.95M RPS	5.4M RPS
SSL connections per second, 2K keys (Std/ XL/Extreme/Extreme +)	2,070 / 7,400 / 13,000 CPS	4,500 / 14,500 / 34,000 / 68,000 CPS	4,800 / 34,000 / 62,500 CPS	12,300 / 34,000 / 140,000 CPS
SSL throughput, 2K keys (Std/XL/Extreme/ Extreme +)	6.7 / 7.7 / 7.7 Gbps	16.2 / 20 / 20 / 20 Gbps	14 / 17.5 / 17.5 Gbps	38 / 27 / 43 Gbps
Compression (Std/XL/ Extreme/Extreme +)	2 / 3.5 / 6.8 Gbps	3 / 10 / 11 / 11 Gbps	4 / 14 / 17 Gbps	8 / 14 / 30 Gbps
Routing Protocols	OSPF, RIP, RIP II, BGP	OSPF, RIP, RIP II, BGP	OSPF, RIP, RIP II, BGP	OSPF, RIP, RIP II, BGP
Processor	1 x Intel quad-core CPU	1 x Intel 6-core CPU	2 x Intel 6-core CPU	2 x Intel 10-core CPU
Memory	8GB up to 32GB	32GB up to 256GB	32GB up to 256GB	128GB up to 256GB
Traffic Ports	2 x 10 GbE SFP+ 8 x 1 GbE RJ45	24 x 10 GbE SFP+	4 x 40 GbE QSFP+ 20 x 10 GbE SFP+	4 x 40 GbE QSFP+ 20 x 10 GbE SFP+
Pluggable Optics	SFP+ pluggable modules: • Short reach SFP+, 10GBASE-SR • Long reach SFP+, 10GBASE-LR SFP pluggable modules: • Short reach SFP, 1000BASE-SX • Long reach SFP, 1000BASE-LX • Pluggable Copper, 1000BASE-T	SFP+ pluggable modules: • Short reach SFP+, 10GBASE-SR • Long reach SFP+, 10GBASE-LR SFP pluggable modules: • Short reach SFP, 1000BASE-SX • Long reach SFP, 1000BASE-LX • Pluggable Copper, 1000BASE-T	QSFP+ pluggable modules: • Short reach QSFP, 40GBASE-SR4 • Long reach QSFP, 40GBASE-LR4 SFP+ pluggable modules: • Short reach SFP+, 10GBASE-SR • Long reach SFP+, 10GBASE-LR SFP pluggable modules: • Short reach SFP, 1000BASE-SX • Long reach SFP, 1000BASE-LX • Pluggable Copper, 1000BASE-T	QSFP+ pluggable modules: • Short reach QSFP, 40GBASE-SR4 • Long reach QSFP, 40GBASE-LR4 SFP+ pluggable modules: • Short reach SFP+, 10GBASE-SR • Long reach SFP+, 10GBASE-LR SFP pluggable modules: • Short reach SFP, 1000BASE-SX • Long reach SFP, 1000BASE-LX • Pluggable Copper, 1000BASE-T
USB Port	Yes	Yes	Yes	Yes
RS-232C Console	RJ-45 Serial Connection	RJ-45 Serial Connection	RJ-45 Serial Connection	RJ-45 Serial Connection
Power	Auto-range power supply 80 plus certified AC: 100-240V, 47-63 Hz DC: -36~-72V Power consumption: 140W Dual power supply is optional	Auto-range power supply 80 plus certified AC: 100-240 V, 47-63 Hz DC: -40~-72V Power consumption: 250W Dual power supply is optional	Auto-range power supply 80 plus certified AC: 100-240 V, 47-63 Hz DC: -36~-72 V Power consumption: 600W Dual power supply is optional	Auto-range power supply 80 plus certified AC: 100-240 V, 47-63 Hz DC: -36~-72 V Power consumption: 670W Dual power supply
Heat dissipation	480 BTU/h	850 BTU/h	2050 BTU/h	2290 BTU/h
Dimensions	Width: 436 mm (17.1 in) Depth: 406 mm (16 in) Height: 44 mm (1.7 in / 1U) EIA Rack or Standalone: 482 mm (19 in)	Width: 436 mm (17.1 in) Depth: 480 mm (18.9 in) Height: 88 mm (3.4 in / 2U) EIA Rack or Standalone: 482 mm (19 in)	Width: 426 mm (16.7 in) Depth: 537 mm (21.1 in) Height: 88 mm (3.4 in / 2U) EIA Rack or Standalone: 482 mm (19 in)	Width: 426 mm (16.7 in) Depth: 600 mm (23.6 in) Height: 88 mm (3.4 in / 2U) EIA Rack or Standalone: 482 mm (19 in)
Weight (Std/XL/Extreme)	Single power supply: 6 kg (13.2 lbs) Dual power supply: 7 kg (15.4 lbs)	Single power supply: 10.5 Kg (23.1 lbs) Dual power supply: 11.2 Kg (24.7 lbs)	Single power supply: 13.2Kg (29.1lbs) / 13.7Kg (30.20 lbs) / 14.7Kg (32.40 lbs) Dual power supply: 14.35 Kg (31.63 lbs) / 14.85 Kg (32.73 lbs) / 15.85 Kg (34.95 lbs)	Dual power supply: 16.15 Kg (35.53 lbs) / 16.65 Kg (36.63 lbs) / 17.65 Kg (38.83 lbs)

	 Alteon 5208	 Alteon 6024	 Alteon 6420	 Alteon 8420
Environmental	Operating temperature: 0-40 °C (32-104 °F) Humidity: 5% to 95% non-condensing	Operating temperature: 0-40 °C (32-104 °F) Humidity: 10% to 95% non-condensing	Operating temperature: 0-40 °C (32-104 °F) Humidity: 10% to 95% non-condensing	Operating temperature: 0-40 °C (32-104 °F) Humidity: 10% to 95% non-condensing
Airflow Direction	Front-Right/Front-Left-To-Back	Front-To-Back	Front-To-Back	Front-To-Back
Operating Environmental	The operating environment must provide airflow at least XX cubic feet per minute (CFM) per unit at a temperature range of 32° to 104°F (0° to 40°C). The optimal ambient temperature (temperature of the air in the unit inlet) for reliable operation is 68° to 77°F (20° to 25°C). Deviation from optimal conditions might cause to temperature issues and early aging of electronic components – early failures of the product			
Min CFM	50	200	200	200
Certifications	RoHS Compliant (EU directive 2011/65/EU)	RoHS Compliant (EU directive 2011/65/EU) 6420/6420p has NEBS version		
Safety	CE LVD(EN 60950-1), CB - IEC 60950-1, CCC, cTUVus	CE LVD(EN 60950-1), CB - IEC 60950-1, CCC, cTUVus		
EMC	CE EMC (EU directive 2004/108/EC), FCC Part 15B Class A, ICES-003, VCCI, C-Tick	CE EMC (EU directive 2004/108/EC), FCC Part 15B Class A, ICES-003, VCCI, C-Tick		