

Thunder ADC Physical Appliance Specifications

Performance	Thunder 840 ADC	Thunder 940 ADC	Thunder 1040 ADC	Thunder 3040 ADC	Thunder 3350-E ADC
Application Throughput (L4/L7)	5 Gbps / 5 Gbps	10 Gbps / 7.5 Gbps	20 Gbps / 20 Gbps	30 Gbps / 30 Gbps	30 Gbps / 30 Gbps
Layer 4 CPS	200K	240k	500K	750K	800K
Layer 4 Concurrent Sessions	16 Million	16 Million	32 Million	64 Million	64 Million
Layer 7 CPS (1:1) ¹	50K	75k	180K	280K	330K
SSL Bulk Throughput ²	1 Gbps	1 Gbps	9 Gbps	11 Gbps	13 Gbps
SSL CPS ²	RSA (1K): 2K RSA (2K): 500	RSA (1K): 2K RSA (2K): 1k	RSA: 15K ECDSA: 8K	RSA: 30K ECDSA: 20K	RSA: 28K ECDSA: 15K
DDoS Protection (SYN Flood) SYN/sec	1.7 Million	2 Million	4 Million	8 Million	TBD
Application Delivery Partitions (ADP)	32	32	32	64	64
Network Interfaces					
Model F					
1 GE (BASE-T)	5	5	5	5	6
1 GE Fiber (SFP)	0	0	0	4	2
1/10 GE Fiber (SFP+)	2	4 ^b	4 ^b	4 ^b	8 + 4 ^b
Management Ports	Ethernet Mgmt Port, RJ-45 Console Port			Ethernet Mgmt Port, RJ-45 Console Port, Lights Out Management	Ethernet Mgmt Port, RJ-45 Console Port
Hardware Specifications					
Processor	Intel Communications Processor	Intel Communications Processor	Intel Communications Processor	Intel Xeon 4-core	Intel Xeon 8-core
Memory (ECC RAM)	8 GB	8 GB	8 GB / 16GB ⁴	16 GB	16 GB
Storage	SSD	SSD	SSD	SSD	SSD
Hardware Acceleration	Software	Software	Software	Software	Software
SSL Security Processor ('S' Models)	N/A	N/A	Yes, 2 options	Yes	Built-in
Dimensions (inches)	1.75 (H) x 17 (W) x 12 (D)	1.75 (H) x 17.5 (W) x 17.25 (D)	1.75 (H) x 17.5 (W) x 17.25 (D)	1.75 (H) x 17.5 (W) x 17.45 (D)	1.75 (H) x 17.5 (W) x 18(D)
Rack Units (Mountable)	1U	1U	1U	1U	1U
Unit Weight ³	8.8 lbs	14 lbs 16 lbs (RPS)	14 lbs 16 lbs (RPS)	20.6 lbs	18 lbs
Power Supply (DC option available)	Single 150W (AC only) 100 - 240 VAC 50-60Hz	Single 750W ⁶	Single 750W ⁶	Dual 600W RPS	Dual 750W RPS
		80 Plus Platinum efficiency, 100 - 240 VAC, 50 - 60 Hz			
Power Consumption (Typical/Max) ³	57W / 75W	60W / 80W	80W / 110W	180W / 240W	151W / 205W
Heat in BTU/hour (Typical/Max) ³	195 / 256	205 / 273	273 / 376	615 / 819	516 / 700
Cooling Fan	Single Fixed Fan	Removable Fans	Removable Fans	Hot Swap Smart Fans	
Operating Ranges	Temperature 0° - 40° C Humidity 5% - 95%				
Regulatory Certifications	FCC Class A, UL, CE, TUV, CB, VCCI, CCC, BSMI, RCM RoHS KCC	FCC Class A, UL, CE, GS, CB, VCCI, CCC, BSMI, RCM RoHS KCC	FCC Class A, UL, CE, GS, CB, VCCI, CCC, BSMI, RCM ⁷ RoHS KCC ⁷	FCC Class A, UL, CE, GS, CB, VCCI, CCC, KCC, BSMI, RCM RoHS, FIPS 140-2 ¹⁵	FCC Class A, UL, CE, GS, CB, VCCI, CCC, BSMI, RCM RoHS
Standard Warranty	90-Day Hardware and Software				

Thunder ADC Physical Appliance Specifications (Cont.)

Performance	Thunder 3350 ADC	Thunder 3350S ADC	Thunder 3230 ADC	Thunder 3430 ADC
Application Throughput (L4/L7)	40 Gbps / 40 Gbps	40 Gbps/ 40 Gbps	30 Gbps / 30 Gbps	42 Gbps / 42 Gbps
Layer 4 CPS	900K	2 Million	1.5 Million	2.5 Million
Layer 4 Concurrent Sessions	96 Million	128 Million	64 Million	128 Million
Layer 7 CPS (1:1) ¹	500K	750K	420K	620K
SSL Bulk Throughput ²	18 Gbps	30 Gbps	14 Gbps	20 Gbps
SSL CPS ²	RSA: 28K ECDSA: 15K	RSA: 60K ECDSA: 35K	RSA: 40K ECDSA: 26K	RSA: 45K ECDSA: 32K
DDoS Protection (SYN Flood) SYN/sec	7.5 Million	TBD	55 Million	55 Million
Application Delivery Partitions (ADP)	127	1,023	64	127
Network Interfaces				
1 GE (BASE-T)	6	6	0	0
1 GE Fiber (SFP)	2	2	4	4
1/10 GE Fiber (SFP+)	4 ⁸	8 + 4 ⁸	4	4
25 GE Fiber (SFP28)	4	0	0	0
40 GE Fiber (QSFP+)	4	0	0	0
Management Ports	Ethernet Mgmt port, RJ-45 console port		Ethernet Mgmt port, RJ-45 console port, Lights Out Management	
Hardware Specifications				
Processor	Intel Xeon 8-core	Intel Xeon 14-core	Intel Xeon 4-core	Intel Xeon 6-core
Memory (ECC RAM)	32 GB	64 GB	16 GB	32 GB
Storage	SSD	SSD	SSD	SSD
Hardware Acceleration	Software	Software	FTA-4	FTA-4
SSL Security Processor ('S' Models)	Built-in	Built-in	Yes	Yes
Dimensions (inches)	1.75 (H) x 17.5 (W) x 18(D)	1.75 (H) x 17.5 (W) x 18(D)	1.75 (H) x 17.5 (W) x 17.15 (D)	1.75 (H) x 17.5 (W) x 17.15 (D)
Rack Units (Mountable)	1U	1U	1U	1U
Unit Weight ³	18 lbs	18 lbs	23 lbs	23 lbs
Power Supply (DC option available)	Dual 750W RPS	Dual 750W RPS	Dual 600W RPS	Dual 600W RPS
	80 Plus Platinum efficiency, 100 - 240 VAC, 50 - 60 Hz			
Power Consumption (Typical/Max) ³	165W / 238W	175W / 222W	190W / 240W	210W / 260W
Heat in BTU/hour (Typical/Max) ³	564 / 831	598 / 758	648 / 819	717 / 887
Cooling Fan	Hot Swap Smart Fans			
Operating Ranges	Temperature 0° - 40° C Humidity 5% - 95%			
Regulatory Certifications	FCC Class A, UL, CE, GS, CB, VCCI, CCC, KCC, BSMI, RCM RoHS	FCC Class A, UL, CE, GS, CB, VCCI, CCC*, KCC, BSMI, RCM RoHS	FCC Class A, UL, CE, GS, CB, VCCI, CCC, KCC, BSMI, RCM, NEBS RoHS	FCC Class A, UL, CE, GS, CB, VCCI, CCC, KCC, BSMI, RCM, NEBS RoHS
Standard Warranty	90-Day Hardware and Software			

Performance	Thunder 4430 ADC	Thunder 4440 ADC	Thunder 5440 ADC	Thunder 5840 ADC
Application Throughput (L4/L7)	38 Gbps / 38 Gbps	78 Gbps / 78 Gbps	100 Gbps / 100 Gbps	115 Gbps / 113 Gbps
Layer 4 CPS	2.7 Million	2.9 Million	4 Million	6.2 Million
Layer 4 Concurrent Sessions	128 Million	128 Million	256 Million	256 Million
Layer 7 CPS (1:1) ¹	620K	750K	950K	1.5 Million
SSL Bulk Throughput ²	20 Gbps	25 Gbps	45 Gbps	55 Gbps
SSL CPS ²	RSA (1K): 86K RSA (2K): 84K	RSA: 70K ECDSA: 42K	RSA: 100K ECDSA: 60K	RSA: 150K ECDSA: 90K
DDoS Protection (SYN Flood) SYN/sec	55 Million	166 Million	166 Million	166 Million
Application Delivery Partitions (ADP)	127	127	1,023	1,023
Network Interfaces				
1/10 GE Fiber (SFP+)	16	24	24	24
40 GE Fiber (QSFP+)	4	4	4	4
25 GE Fiber (SFP28)	0	0	0	0
Management Ports	Ethernet Mgmt port, RJ-45 console port, Lights Out Management			
Hardware Specifications				
Processor	Intel Xeon 6-core	Intel Xeon 6-core	Intel Xeon 12-core	Intel Xeon 18-core
Memory (ECC RAM)	32 GB	32 GB	64 GB	64 GB
Storage	SSD	SSD	SSD	SSD
Hardware Acceleration	FTA-3	2 x FTA-4	2 x FTA-4	2 x FTA-4
SSL Security Processor ('S' Models)	Yes	Yes	Yes	Yes
Hardware Security Module (HSM)	N/A	N/A	Yes	Yes
Dimensions (inches)	1.75 (H) x 17 (W) x 24.6 (D)	1.75 (H) x 17.5 (W) x 30 (D)	1.75 (H) x 17.5 (W) x 30 (D)	1.75 (H) x 17.5 (W) x 30 (D)
Rack Units (Mountable)	1U	1U	1U	1U
Unit Weight ³	25.2 lbs	32.5 lbs	32.5 lbs	32.5 lbs
Power Supply (DC option available)	Dual 600W RPS	Dual 1100W RPS	Dual 1100W RPS	Dual 1100W RPS
	80 Plus Platinum efficiency, 100 - 240 VAC, 50 - 60 Hz			
Power Consumption (Typical/Max) ³	266W / 319W	360W / 445W	360W / 445W	375W / 470W
Heat in BTU/hour (Typical/Max) ³	908 / 1,088	1,229 / 1,519	1,229 / 1,519	1,280 / 1,604
Cooling Fan	Hot Swap Smart Fans			
Operating Ranges	Temperature 0° - 40° C Humidity 5% - 95%			
Regulatory Certifications	FCC Class A, UL, CE, TUV, CB, VCCI, CCC, KCC, BSMI, RCM, NEBS RoHS, CC EAL2+	FCC Class A, UL, CE, GS, CB, VCCI, CCC, KCC, BSMI, RCM RoHS	FCC Class A, UL, CE, GS, CB, VCCI, CCC, BSMI, RCM RoHS, FIPS 140-2 ¹⁵	FCC Class A, UL, CE, GS, CB, VCCI, CCC, BSMI, RCM RoHS, FIPS 140-2 ¹⁵
Standard Warranty	90-Day Hardware and Software			

Thunder ADC Physical Appliance Specifications (Cont.)

Performance	Thunder 5840-11 ADC	Thunder 6440 ADC	Thunder 7440 ADC	Thunder 7440-11 ADC
Application Throughput (L4/L7)	115 Gbps / 113 Gbps	160 Gbps / 150 Gbps	220 Gbps / 200 Gbps	220 Gbps / 200 Gbps
Layer 4 CPS	6.2 Million	5.5 Million	10.5 Million	10.5 Million
Layer 4 Concurrent Sessions	256 Million	256 Million	256 Million	256 Million
Layer 7 CPS (1:1) ^{*1}	1.5 Million	1.4 Million	2.8 Million	2.8 Million
SSL Bulk Throughput ^{*2}	55 Gbps	60 Gbps	75 Gbps	75 Gbps
SSL CPS ^{*2}	RSA: 150K ECDSA: 90K	RSA (1K): 180K RSA (2K): 180K	RSA (1K): 200K RSA (2K): 200K	RSA (1K): 200K RSA (2K): 200K
DDoS Protection (SYN Flood) SYN/sec	166 Million	332 Million	332 Million	332 Million
Application Delivery Partitions (ADP)	1,023	1,023	1,023	1,023
Network Interfaces				
1/10 GE Fiber (SFP+)	48	48	48	48
40 GE Fiber (QSFP+)	0	4	4	0
100 GE Fiber (QSFP28)	4	0	0	4
Management Ports	Ethernet Mgmt port, RJ-45 console port, Lights Out Management			
Hardware Specifications				
Processor	Intel Xeon 18-core	2 x Intel Xeon 10-core	2 x Intel Xeon 18-core	2 x Intel Xeon 18-core
Memory (ECC RAM)	64 GB / 128 GB ^{*4}	128 GB	128 GB	128 GB
Storage	SSD	SSD	SSD	SSD
Hardware Acceleration	2 x FTA-4	3 x FTA-4	3 x FTA-4	3 x FTA-4
SSL Security Processor ('S' Models)	Yes	Yes	Yes	Yes
Hardware Security Module (HSM)	N/A	N/A	N/A	N/A
Dimensions (inches)	1.75 (H) x 17.5 (W) x 30 (D)	1.75 (H) x 17.5 (W) x 30 (D)	1.75 (H) x 17.5 (W) x 30 (D)	1.75 (H) x 17.5 (W) x 30 (D)
Rack Units (Mountable)	1U	1U	1U	1U
Unit Weight ^{*3}	34.3 lbs	36 lbs	35.7 lbs	35.7 lbs
Power Supply (DC option available)	Dual 1500W RPS	Dual 1100W RPS	Dual 1100W RPS	Dual 1500W RPS
	80 Plus Platinum efficiency, 100 - 240 VAC, 50 - 60 Hz			
Power Consumption (Typical/Max) ^{*3}	550W / 760W	480W / 550W	690W / 820W	820W / 950W
Heat in BTU/hour (Typical/Max) ^{*3}	1,877 / 2,594	1,638 / 1,877	2,355 / 2,798	2,798 / 3,242
Cooling Fan	Hot Swap Smart Fans			
Operating Ranges	Temperature 0° - 40° C Humidity 5% - 95%			
Regulatory Certifications	FCC Class A, UL, CE, GS, CB, VCCI, CCC*, BSMI, RCM RoHS	FCC Class A, UL, CE, GS, CB, VCCI, CCC, BSMI, RCM RoHS	FCC Class A, UL, CE, GS, CB, VCCI, CCC, KCC, BSMI, RCM RoHS, FIPS 140-2 ^{*5}	FCC Class A, UL, CE, GS, CB, VCCI, CCC*, KCC*, BSMI, RCM RoHS, FIPS 140-2 ^{*15}
Standard Warranty	90-Day Hardware and Software			

Hardware specifications and performance numbers are subject to change without notice, and may vary depending on configuration and environmental conditions. As for network interfaces, it's highly recommended to use A10 Networks' qualified optics/transceivers to ensure network reliability and stability.

^{*1} Layer 7 connections per second - measures number of new HTTP connections (1 HTTP request per TCP connection, without TCP connection reuse) within 1 second | ^{*2} Tested with maximum SSL option. Cipher "TLS_RSA_WITH_AES_128_CBC_SHA256" with RSA 2K keys, unless noted, are used for RSA cases, "TLS_ECDHE_ECDSA_WITH_AES_128_CBC_SHA256" with EC P-256 are used for PFS cases. | ^{*3} With base model. Number varies by hardware options (e.g. SSL cards) | ^{*4} With maximum SSL option | ^{*5} For FIPS 140-2 Level 2 validated, FIPS models must be purchased | ^{*6} Optional RPS available | ^{*7} Not applicable to Thunder 1040-F | ^{*8} 10Gbps speed only | ^{*} Certification in process

Thunder ADC SPE Physical Appliance Specifications

Thunder
4435 SPE

Performance

Application Throughput (L4/L7)	38 Gbps / 38 Gbps
Layer 4 CPS	3.1 Million
Layer 4 HTTP RPS	12 Million
Layer 4 Concurrent Sessions	128 Million
Layer 7 CPS (1:1) ^{*1}	660K
SSL Bulk Throughput (RSA 2K keys) ^{*2}	26 Gbps
SSL CPS (RSA 2K keys) ^{*2}	65K
DDoS Protection (SYN Flood) SYN/sec	55 Million
Application Delivery Partitions (ADP)	1,023

Network Interfaces

1/10 GE Fiber (SFP+)	16
Management Ports	Ethernet Mgmt Port, RJ-45 Console Port, Lights Out Management

Hardware Specifications

Processor (Intel Xeon)	10-core
Memory (ECC RAM)	64 GB
Storage	SSD
Hardware Acceleration	FTA-3, SPE
SSL Security Processor ('S' Models)	N/A
Dimensions (inches)	1.75 (H) x 17.5 (W) x 30 (D)
Rack Units (Mountable)	1U
Unit Weight	34.5 lbs
Power Supply (DC option available)	Dual 1100W RPS 80 Plus Platinum efficiency, 100 - 240 VAC, 50 - 60 Hz
Power Consumption (Typical/Max) ^{*3}	350W / 420W
Heat in BTU/hour (Typical/Max) ^{*3}	1,195 / 1,433
Cooling Fan	Hot Swap Smart Fans
Operating Ranges	Temperature 0° - 40° C Humidity 5% - 95%
Regulatory Certifications	FCC Class A, UL, CE, TUV, CB, VCCI, CCC, MSIP, BSMI, RCM, EAC, NEBS RoHS
Standard Warranty	90-Day Hardware and Software

Hardware specifications and performance numbers are subject to change without notice, and may vary depending on configuration and environmental conditions.
^{*1} Layer 7 connections per second - measures number of new HTTP connections (1 HTTP request per TCP connection, without TCP connection reuse) within 1 second |
^{*2} Tested with maximum SSL option, using cipher "TLS_RSA_WITH_AES_128_CBC_SHA" with RSA 2K keys | ^{*3} With base model. Number varies by SSL model

Thunder ADC for Low Latency Appliance Specifications

Thunder
4435

Performance

Mean Latency L7	3.9 μ s
Max Latency L7	4.2 μ s
Jitter L7	0.4 μ s
Concurrent NAT Sessions	32,000

Network Interfaces

1/10 GE Fiber (SFP+)	16
Management Ports	Ethernet Mgmt port, RJ-45 console port, Lights Out Management

Hardware Specifications

Processor (Intel Xeon)	10-core
Memory (ECC RAM)	64 GB
Storage	SSD
Hardware Acceleration	FTA-3, SPE
Dimensions (inches)	1.75 (H) x 17.5 (W) x 30 (D)
Rack Units (Mountable)	1U
Unit Weight	34.5 lbs
Power Supply (DC option available)	Dual 1100W RPS 80 Plus Platinum efficiency, 100 - 240 VAC, 50 - 60 Hz
Power Consumption (Typical/Max)	350W / 420W
Heat in BTU/hour (Typical/Max)	1,195 / 1,433
Cooling Fan	Hot Swap Smart Fans
Operating Ranges	Temperature 0° - 40° C Humidity 5% - 95%
Regulatory Certifications	FCC Class A, UL, CE, TUV, CB, VCCI, CCC, MSIP, BSMI, RCM, EAC, NEBS RoHS
Standard Warranty	90-Day Hardware and Software

Hardware specifications and performance numbers are subject to change without notice, and may vary depending on configuration and environmental conditions. Performance varies by number of virtual machines running and hardware resources assigned.

A10 Thunder on Dell Technologies OEM Solution Bundle Specifications

Thunder ADC on Dell Technologies OEM Solution Bundle

A single service platform consists of A10's cloud-ready software and purpose-built Dell Technologies hardware, available for application delivery controller (ADC), carrier grade networking (CGN) or SSL insight (SSLi) solutions.

Thunder ADC Performance	Dell Technologies VEP4600	Dell Technologies R640	Dell Technologies R740
Throughput (L4 / L7)	10 Gbps / 7.5 Gbps	34 Gbps / 34 Gbps	63 Gbps / 63 Gbps
Connections Per Second (L4 / L7) ^{*1}	350K / 175K	1.7 Million / 850K	1.7 Million / 850K
SSL Bulk Throughput	2 Gbps	27 Gbps	38 Gbps
SSL CPS (RSA / ECDSA) ^{*2}	3.5K / 7K	85K / 38K	102K / 51K
Network Interfaces			
1 GE (BASE-T)	6	2	2
1/10 GE Fiber (SFP+)	4	6	10
Hardware Specifications			
Processor	Intel Xeon 8-core	2 x Intel Xeon 20-core	2 x Intel Xeon 20-core
Memory	16 GB	192 GB	192 GB
Storage	SSD	2 x SSD	2 x SSD
TLS/SSL Security Processor	Built-in	2 x Security card (PCIe)	2 x Dual-chip security card (PCIe)
Power Supply	Single 230W Power Supply	Dual 750W Power Supply	Dual 2000W Power Supply

Thunder MVP on Dell Technologies OEM Solution Bundle

A10 Thunder Multi-tenant Virtual Platform (MVP) on Dell Technologies is an advanced platform enabling multiple virtual instances or services on a single platform. The available choice of vThunder services are ADC, CGN and/or SSLi.

Performance with ADC ^{*3}	Dell Technologies R640	Dell Technologies R740
Throughput (L4 / L7)	34 Gbps / 34 Gbps	63 Gbps / 63 Gbps
Connections Per Second (L4 / L7) ^{*1}	807K / 595K	1 Million / 935K
SSL Bulk Throughput	27 Gbps	34 Gbps
SSL CPS (RSA / ECDSA) ^{*2}	51K / 38K	102K / 76K
Network Interfaces		
1 GE (BASE-T)	2	2
1/10 GE Fiber (SFP+)	6	10
Hardware Specifications		
Processor	2 x Intel Xeon 20-core	2 x Intel Xeon 20-core
Memory	192 GB	192 GB
Storage	2 x SSD	2 x SSD
TLS/SSL Security Processor	2 x Security card (PCIe)	2 x Dual-chip security card (PCIe)
Power Supply	Dual 750W Power Supply	Dual 2000W Power Supply

*1 Layer 7 connections per second - measures number of new HTTP connections (1 HTTP request per TCP connection, without TCP connection reuse) within 1 second |

*2 RSA (2K keys) cipher: "TLS_RSA_WITH_AES_128_CBC_SHA256", ECDSA (EC P-256) cipher: "TLS_ECDHE_ECDSA_WITH_AES_128_CBC_SHA256"

*3 All Thunder MVP performance are aggregated number using the following VM profiles:

- R640 is tested with 4-VM profile (8 vCPUs, 16GB memory, 100GB storage, 16 SSL virtual functions (VFs) assigned on each vThunder)

- R740 is tested with 8-VM profile (8 vCPUs, 16GB memory, 100GB storage, 16 SSL VFs assigned on each vThunder)

Thunder ADC Virtual Appliance Specifications

vThunder ADC

Supported Hypervisors	VMware ESXi 5.0 or higher (VMXNET3, SR-IOV, PCI Passthrough) KVM QEMU 1.0 or higher (VirtIO, OvS with DPDK, SR-IOV, PCI Passthrough) Microsoft Hyper-V on Windows Server 2008 R2 or higher									
Hardware Requirements	See installation guide									
Standard Warranty	90-Day Software									
Bandwidth Licenses	Lab	200 Mbps	1 Gbps	4 Gbps	8 Gbps	10 Gbps	20 Gbps	40 Gbps	100 Gbps	FlexPool
VMware ESXi	●	●	●	●	●	●	● ^{*1}	● ^{*1 *2}	● ^{*2}	●
KVM	●	●	●	●	●	●	● ^{*1}	● ^{*1 *2}	● ^{*2}	●
Microsoft Hyper-V	●	●	●	●	● ⁺					●

*1 SR-IOV | *2 PCI Passthrough | +8 Gbps license not recommended for Microsoft Hyper-V

vThunder ADC for Cloud

AWS

Microsoft Azure

Oracle Cloud

Throughput	Up to 10 Gbps	Up to 10 Gbps	Up to 24 Gbps
Image Format	Amazon AMI	Microsoft VHD	QCOW2
Licenses (Per instance)	30-day Trial License Pre-installed Bnadwidth License: - 200 Mbps, 500 Mbps, 1 Gbps BYOL Bandwidth License: - Lab/Developer, 200 Mbps, 1 Gbps, 4 Gbps, 10 Gbps FlexPool License: Up to 10 Gbps	30-day Trial License Pre-installed Bandwidth License: - 10 Mbps, 50 Mbps, 100 Mbps, 200 Mbps, 500 Mbps BYOL Bandwidth License: - Lab/Developer, 200 Mbps, 500 Mbps, 1 Gbps, 4 Gbps, 10 Gbps FlexPool License: Up to 10 Gbps	30-day Trial License Pre-installed OCPU based License: - 1 OCPU to 24 OCPU BYOL Bandwidth License: - Lab/Developer, 200 Mbps, 1 Gbps, 4 Gbps, 10 Gbps FlexPool License: Up to 24 Gbps

Thunder ADC Containers

Image Format	Docker
Operating System	Reference Operating System: • Ubuntu 16.04.3 LTS (Xenial Xerus) • RedHat Enterprise Linux version 7.6
System Requirements	Minimum requirement: • 1 or more data interface • 1 vCPU and 4GB memory
Licenses	BYOL Bandwidth License: • Up to 100 Gbps FlexPool License: • Up to 100 Gbps
Standard Warranty	90-Day Software

Thunder ADC Virtual Appliance Specifications (Cont.)

Thunder ADC for Bare Metal

System Requirements	Minimum Hardware Requirement <ul style="list-style-type: none">• Intel x86-based CPUs with minimum of 4 cores• 16 GB RAM• 80 GB of free disk space• 2 Ethernet interfaces (3 or more are recommended)• Intel Network Adapters and drivers including igb, ixgbe, and i40e.
Reference Platforms	Dell PowerEdge, Cisco UCS, Ericsson Hyperscale Datacenter System (HDS), HP ProLiant and more
Bandwidth Licenses*	10 Gbps (4 cores), 20 Gbps (8 cores), 40 Gbps (14 cores) and 60 Gbps (24 cores) FlexPool
Standard Warranty	90-Day Software

* Licenses are tied to the maximum number of cores that can be allocated to ACOS

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