

## Thunder ADC Physical Appliance Specifications

Performance	Thunder 940 ADC	Thunder 1040 ADC	Thunder 3350-E ADC	Thunder 3350 ADC
Application Throughput (L4/L7)	10 Gbps / 7.5 Gbps	20 Gbps / 20 Gbps	30 Gbps / 30 Gbps	40 Gbps / 40 Gbps
Layer 4 CPS	240k	500K	800K	1 Million
Layer 4 Concurrent Sessions	16 Million	32 Million	64 Million	96 Million
Layer 7 CPS (1:1) <sup>1</sup>	75k	180K	330K	500K
SSL Bulk Throughput <sup>2</sup>	1 Gbps	9 Gbps	13 Gbps	18 Gbps
SSL CPS <sup>2</sup>	RSA: 1K ECDSA: 800	RSA: 15K ECDSA: 8K	RSA: 28K ECDSA: 15K	RSA: 28K ECDSA: 15K
DDoS Protection (SYN Flood) SYN/sec	2 Million	4 Million	8 Million	8 Million
Application Delivery Partitions (ADP)	32	32	64	127
Network Interfaces				
	Model F			
1 GE (BASE-T)	5	5	5	6
1 GE Fiber (SFP)	0	0	4	2
1/10 GE Fiber (SFP+)	4 <sup>3b</sup>	4 <sup>3b</sup>	4 <sup>3b</sup>	8 + 4 <sup>3b</sup>
25 GE Fiber (SFP28)	0	0	0	4
40 GE Fiber (QSFP+)	0	0	0	4
100 GE Fiber (QSFP28)	0	0	0	0
Management Ports	Ethernet Mgmt Port, RJ-45 Console Port			
Hardware Specifications				
Processor	Intel Communications Processor	Intel Communications Processor	Intel Xeon 8-core	Intel Xeon 8-core
Memory (ECC RAM)	8 GB	8 GB / 16 GB <sup>4/17</sup>	16 GB	32 GB
Storage	SSD	SSD	SSD	SSD
Hardware Acceleration	Software	Software	Software	Software
TLS/SSL Security Acceleration	Software	Hardware on S models (2 options) <sup>7</sup>	Hardware	Hardware
Dimensions (inches)	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 18(D)	1.75 (H) x 17.5 (W) x 18(D)
Rack Units (Mountable)	1U	1U	1U	1U
Unit Weight <sup>3</sup>	14 lbs 16lbs (RPS)	14 lbs 16 lbs (RPS)	18 lbs	18 lbs
Power Supply (DC option available)	Single 750W <sup>6</sup>	Single 750W <sup>6</sup>	Dual 750W RPS	Dual 750W RPS
	80 Plus Platinum efficiency, 100 - 240 VAC, 50 - 60 Hz			
Power Consumption (Typical/Max) <sup>3</sup>	60W / 80W	80W / 110W	151W / 205W	165W / 238W
Heat in BTU/hour (Typical/Max) <sup>3</sup>	205 / 273	273 / 376	516 / 700	564 / 831
Cooling Fan (Front-to-Back airflow)	Removable Fans		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, BSMI, RCM   RoHS	FCC Class A, UL, CE, GS, CB, VCCI, CCC, KCC, BSMI, RCM   RoHS
Standard Warranty	90-day Hardware and Software			

## Thunder ADC Physical Appliance (cont.)

Performance	Thunder 3350S <sub>ADC</sub>	Thunder 4440 <sub>ADC</sub>	Thunder 5440 <sub>ADC</sub>	Thunder 5840 <sub>ADC</sub>
Application Throughput (L4/L7)	50 Gbps / 50 Gbps	78 Gbps / 70 Gbps	100 Gbps / 100 Gbps	115 Gbps / 113 Gbps
Layer 4 CPS	2 Million	2 Million	3.2 Million	4.5 Million
Layer 4 Concurrent Sessions	128 Million	128 Million	256 Million	256 Million
Layer 7 CPS (1:1) <sup>1</sup>	750K	750K	950K	1.5 Million
SSL Bulk Throughput <sup>2</sup>	30 Gbps	25 Gbps	45 Gbps	55 Gbps
SSL CPS <sup>2</sup>	RSA: 60K ECDSA: 35K	RSA: 70K ECDSA: 42K	RSA: 100K ECDSA: 60K	RSA: 150K ECDSA: 90K
DDoS Protection (SYN Flood) SYN/sec	16 Million	110 Million	166 Million	166 Million
Application Delivery Partitions (ADP)	1,023	127	1,023	1,023
Network Interfaces				
1 GE (BASE-T)	6	0	0	0
1 GE Fiber (SFP)	2	0	0	0
1/10 GE Fiber (SFP+)	8 + 4 <sup>18</sup>	24	24	24
25 GE Fiber (SFP28)	0	0	0	0
40 GE Fiber (QSFP+)	0	4	4	4
100 GE Fiber (QSFP28)	0	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 14-core	Intel Xeon 6-core	Intel Xeon 12-core	Intel Xeon 18-core
Memory (ECC RAM)	64 GB	32 GB	64 GB	64 GB
Storage	SSD	SSD	SSD	SSD
Hardware Acceleration	Software	2 x FTA-4	2 x FTA-4	2 x FTA-4
TLS/SSL Security Acceleration	Hardware	Hardware on S model	Hardware on S model	Hardware on S models
Dimensions (inches)	1.75 (H) x 17.5 (W) x 18(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 <sup>3</sup>	18 lbs	32.5 lbs	32.5 lbs	32.5 lbs
Power Supply (DC option available)	Dual 750W RPS	Dual 1100W RPS	Dual 1100W RPS	Dual 1100W RPS
	80 Plus Platinum efficiency, 100 - 240 VAC, 50 - 60 Hz			
Power Consumption (Typical/Max) <sup>3</sup>	175W / 222W	360W / 445W	360W / 445W	375W / 470W
Heat in BTU/hour (Typical/Max) <sup>3</sup>	598 / 758	1,229 / 1,519	1,229 / 1,519	1,280 / 1,604
Cooling Fan (Front-to-Back airflow)	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, CB, VCCI, CCC, KCC, BSMI, RCM   RoHS	FCC Class A, UL, CE, CB, VCCI, CCC, KCC, BSMI, RCM   RoHS, FIPS 140-2 <sup>15</sup>	FCC Class A, UL, CE, CB, VCCI, CCC, KCC, BSMI, RCM   RoHS, FIPS 140-2 <sup>15</sup>
Standard Warranty	90-day Hardware and Software			

# Thunder ADC Physical Appliance (cont.)

Performance	Thunder 5840-11 ADC	Thunder 6440 ADC	Thunder 7440 ADC	Thunder 7440-11 ADC
Application Throughput (L4/L7)	115 Gbps / 113 Gbps	150 Gbps / 140 Gbps	220 Gbps / 200 Gbps	220 Gbps / 200 Gbps
Layer 4 CPS	4.5 Million	4.5 Million	8.3 Million	8.3 Million
Layer 4 Concurrent Sessions	256 Million	256 Million	256 Million	256 Million
Layer 7 CPS (1:1) <sup>*1</sup>	1.5 Million	1.4 Million	2.8 Million	2.8 Million
SSL Bulk Throughput <sup>*2</sup>	55 Gbps	60 Gbps	75 Gbps	75 Gbps
SSL CPS <sup>*2</sup>	RSA: 150K ECDSA: 90K	RSA: 150K ECDSA: 70K	RSA: 200K ECDSA: 70K	RSA: 200K ECDSA: 70K
DDoS Protection (SYN Flood) SYN/sec	166 Million	238 Million	332 Million	332 Million
Application Delivery Partitions (ADP)	1,023	1,023	1,023	1,023
Network Interfaces				
1 GE (BASE-T)	0	0	0	0
1 GE Fiber (SFP)	0	0	0	0
1/10 GE Fiber (SFP+)	48	48	48	48
25 GE Fiber (SFP28)	0	0	0	0
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 <sup>*4</sup>	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
TLS/SSL Security Acceleration	Hardware on S models	Hardware on S model	Hardware on S model	Hardware on S model
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 <sup>*5</sup>	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) <sup>*3</sup>	550W / 760W	480W / 550W	690W / 820W	820W / 950W
Heat in BTU/hour (Typical/Max) <sup>*3</sup>	1,877 / 2,594	1,638 / 1,877	2,355 / 2,798	2,798 / 3,242
Cooling Fan (Front-to-Back airflow)	Hot Swap Smart Fans			
Operating Ranges	Temperature 0° - 40° C   Humidity 5% - 95%			
Regulatory Certifications	FCC Class A, UL, CE, CB, VCCI, CCC, BSMI, RCM   RoHS	FCC Class A, UL, CE, CB, VCCI, CCC, KCC, BSMI, RCM   RoHS	FCC Class A, UL, CE, CB, VCCI, CCC, KCC, BSMI, RCM   RoHS, FIPS 140-2 <sup>*5</sup>	FCC Class A, UL, CE, CB, VCCI, CCC, BSMI, RCM   RoHS, FIPS 140-2 <sup>*5</sup>
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.

<sup>\*1</sup> Layer 7 connections per second - measures number of new HTTP connections (1 HTTP request per TCP connection, without TCP connection reuse) within 1 second | <sup>\*2</sup> 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. | <sup>\*3</sup> With base model. Number varies by hardware options (e.g. SSL cards) | <sup>\*4</sup> With maximum SSL option | <sup>\*5</sup> For FIPS 140-2 Level 2 validated, FIPS models must be purchased | <sup>\*6</sup> Optional RPS available | <sup>\*7</sup> Thunder 1040-F comes with hardware TLS/SSL acceleration with 16GB RAM by default | <sup>\*8</sup> 10Gbps speed only | ^ Certification in process

## Thunder ADC SPE Physical Appliance Specifications

Performance	Thunder 4435 <sub>ADC</sub>	Thunder 7655 <sub>ADC</sub>
Application Throughput (L4/L7)	38 Gbps / 38 Gbps	370 Gbps / 340 Gbps
Layer 4 CPS	3.1 Million	12 Million
Layer 4 Concurrent Sessions	128 Million	384 Million
Layer 7 CPS (1:1) <sup>*1</sup>	660K	4.5 Million
SSL Bulk Throughput <sup>*2</sup>	26 Gbps	145 Gbps
SSL CPS <sup>*2</sup>	RSA: 65K	RSA: 200K ECDSA: 140K
DDoS Protection (SYN Flood) SYN/sec	55 Million	500 Million
Application Delivery Partitions (ADP)	1,023	1,023
<b>Network Interfaces</b>		
1/10 GE Fiber (SFP+)	16	0
100 GE Fiber (QSFP28)	0	16
Management Ports	Ethernet Mgmt Port, RJ-45 Console Port, Lights Out Management	
<b>Hardware Specifications</b>		
Processor (Intel Xeon)	10-core	2 x 28-core
Memory (ECC RAM)	64 GB	384 GB
Storage	SSD	SSD
Hardware Acceleration	FTA-3, SPE	2 x FTA-5, SPE
TLS/SSL Security Acceleration	Software	Hardware
Dimensions (Inches)	1.75 (H) x 17.5 (W) x 30 (D)	2.625 (H) x 17.5 (W) x 30 (D)
Rack Units (Mountable)	1U	1.5U
Unit Weight	34.5 lbs	44.2 lbs
Power Supply (DC Option Available)	Dual 1100W RPS	Dual 1500W RPS
	80 Plus Platinum Efficiency, 100 - 240 VAC, 50 - 60 Hz	
Power Consumption (Typical/Max) <sup>*3</sup>	350W / 420W	1,121W / 1,300W
Heat in BTU/hour (Typical/Max) <sup>*3</sup>	1,195 / 1,433	3,826 / 4,436
Cooling Fan (Front-to-Back Airflow)	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	FCC Class A, UL, CE, GS, CB, VCCI, CCC, BSMI, RCM   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

Performance	Thunder 4435
Mean Latency L7	3.9 $\mu$ s
Max Latency L7	4.2 $\mu$ s
Jitter L7	0.4 $\mu$ 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 (Front-to-Back Airflow)	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

## Single Service Platform (SSP) Specifications

The SSP range consists of A10's cloud-ready software and purpose-built Dell Technologies hardware, with an inclusive license<sup>3</sup> that has the capabilities of delivering Application Delivery Controller (ADC), SSL Insight (SSLi), and Carrier Grade Networking (CGN) solutions along with an expanded feature set of A10 capabilities.

Thunder ADC Performance	Dell Technologies VEP4600	Dell Technologies R640		Dell Technologies R740	
		10GE NIC Model	100GE NIC Model	10GE NIC Model	100GE NIC Model
Application Throughput (L4 / L7)	10 Gbps / 7.5 Gbps	40 Gbps / 40 Gbps	60 Gbps / 60 Gbps	75 Gbps / 75 Gbps	100 Gbps / 100 Gbps
Connections Per Second (L4 / L7) <sup>1</sup>	350K / 175K	2 Million / 1 Million	2 Million / 1 Million	2 Million / 1 Million	3 Million / 1 Million
SSL Bulk Throughput	2 Gbps	32 Gbps	38 Gbps	45 Gbps	66 Gbps
SSL CPS (RSA / ECDSA) <sup>2</sup>	3.5K / 7K	100K / 45K	107K / 72K	120K / 60K	131K / 85K
Network Interfaces					
1 GE (BASE-T)	6	2	2	2	2
1/10 GE Fiber (SFP+)	4	6	2	10	10
100 GE Fiber (QSFP28)	0	0	2	0	4
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	

# A10 Thunder on Dell Technologies OEM Solution Bundle Specifications (cont.)

## Multi-tenant Virtual Platform (MVP) Specifications

A10 Thunder Multi-tenant Virtual Platform (MVP) on Dell Technologies is an advanced platform enabling multiple virtual instances or services on a single platform, with inclusive license that has the capabilities of delivering Application Delivery Controller (ADC), SSL Insight (SSLi), and Carrier Grade Networking (CGN) solutions along with an expanded feature set of A10 capabilities.

Performance with ADC	Dell Technologies R640		Dell Technologies R740	
	10GE NIC Model	100GE NIC Model	10GE NIC Model	100GE NIC Model
Application Throughput (L4 / L7)	40 Gbps / 40 Gbps	43 Gbps / 36 Gbps	75 Gbps / 75 Gbps	93 Gbps / 72 Gbps
Connections Per Second (L4 / L7) <sup>*1</sup>	950K / 700K	1 Million / 850K	1.2 Million / 1 Million	1.7 Million / 1.7 Million
SSL Bulk Throughput	32 Gbps	37 Gbps	40 Gbps	63 Gbps
SSL CPS (RSA / ECDSA) <sup>*2</sup>	60K / 45K	98.6K / 75K	120K / 90K	164K / 116K
<b>Network Interfaces</b>				
1 GE (BASE-T)	2	2	2	2
1/10 GE Fiber (SFP+)	6	2	10	10
100 GE Fiber (QSFP28)	0	2	0	4
<b>Hardware Specifications</b>				
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\_SHA", ECDSA (EC P-256) cipher: "TLS\_ECDHE\_ECDSA\_WITH\_AES\_128\_CBC\_SHA"

\*3 A10 Thunder on Dell Technologies OEM bundle solutions are licensed under the Convergent Firewall (CFW) license. Check with your A10 Networks sales representative for the latest information on full feature testing and validation.

All Thunder MVP performance specifications are aggregate number that use the following VM profiles:

- R640 10GE NIC model is tested with 4-VM profile (8 vCPUs, 16 GB memory, 30 GB storage, 16 SSL virtual functions (VFs) assigned on each vThunder)
- R640 100GE NIC model is tested with 4-VM profile (16 vCPUs, 32 GB memory, 30 GB storage, 8 SSL VFs assigned on each vThunder)
- R740 10GE and 100GE NIC model are tested with 8-VM profile (8 vCPUs, 16 GB memory, 30 GB storage, 16 SSL VFs assigned on each vThunder)

# Thunder ADC Virtual Appliance Specifications

vThunder ADC	
Supported Hypervisors	VMware ESXi 5.5 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	●	●	●	●	●	●	● <sup>*1</sup>	● <sup>*1, *2</sup>	● <sup>*2</sup>	●
KVM	●	●	●	●	●	●	● <sup>*1</sup>	● <sup>*1, *2</sup>	● <sup>*2</sup>	●
Microsoft Hyper-V	●	●	●	●	● <sup>*</sup>					●

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 Container	
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 4 GB Memory
Licenses (Per Instance)	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: 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. For more details, see Installation Guide.
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 (Up to 60 Gbps per Thunder ADC)
Standard Warranty	90-day Software

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

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

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