



## THUNDER ADC APPLIANCE SPECIFICATIONS

	THUNDER <b>840</b> ADC	THUNDER <b>930</b> ADC	THUNDER <b>940</b> ADC	THUNDER <b>1030S</b> ADC	THUNDER <b>1040</b> ADC
<b>PERFORMANCE</b>					
Application Throughput (L4/L7)	5 Gbps / 5 Gbps	5 Gbps / 5 Gbps	10 Gbps / 7.5 Gbps	10 Gbps / 10 Gbps	20 Gbps / 20 Gbps
Layer 4 CPS	200K	200K	240k	450K	450k
Layer 4 HTTP RPS	1 Million	1 Million	1 Million	2 Million	2 Million
Layer 4 Concurrent Sessions	16 Million	16 Million	16 Million	32 Million	32 Million
Layer 7 CPS (1:1) <sup>1</sup>	50K	50K	75K	150K	150K
SSL Bulk Throughput <sup>2</sup>	1 Gbps	1 Gbps	1 Gbps	7 Gbps	7 Gbps
SSL CPS <sup>2</sup>	RSA (1K): 2K RSA (2K): 500	RSA (1K): 1.9K RSA (2K): 400	RSA (1K): 2K RSA (2K): 1k	RSA (1K): 25K RSA (2K): 7K	RSA: 16K ECDSA: 8K
DDoS Protection (SYN Flood) SYN/sec	1.7 Million	2 Million	2 Million	4 Million	4 Million
Application Delivery Partitions (ADP)	32	32	32	32	32
<b>NETWORK INTERFACE</b>					
1 GE Copper	5	6	5	6	5
1 GE Fiber (SFP)	0	2	0	2	0
1/10 GE Fiber (SFP+)	2	2	4	2	4
Management Ports	1 x Ethernet Mgmt port, 1 x RJ-45 console port				
<b>HARDWARE SPECIFICATIONS</b>					
Processor	Intel Communications Processor	Intel Xeon 2-core	Intel Communications Processor	Intel Xeon 4-core	Intel Communications Processor
Memory (ECC RAM)	8 GB	8 GB	8 GB	8 GB	8GB / 16GB <sup>4</sup>
Storage	SSD	SSD	SSD	SSD	SSD
Hardware Acceleration	Software	Software	Software	Software	Software
SSL Security Processor ('S' Models)	N/A	N/A	N/A	Yes	Yes
Dimensions (inches)	1.75 (H) x 17 (W) x 12 (D)	1.75 (H) x 17.5 (W) x 17.45 (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 17.25 (D)
Rack Units (Mountable)	1U	1U	1U	1U	1U
Unit Weight	8.8 lbs	17.8 lbs 19.9 lbs (RPS)	14 lbs 16 lbs (RPS)	18.0 lbs 20.1 lbs (RPS)	15 lbs 17 lbs (RPS)
Power Supply (DC option available)	Single 150W (AC only) 100 - 240 VAC 50-60Hz	Single 600W <sup>6</sup>	Single 750W <sup>6</sup>	Single 600W <sup>6</sup>	Single 750W <sup>6</sup>
	80 Plus Platinum efficiency, 100 - 240 VAC, 50 - 60 Hz				
Power Consumption (Typical/Max) <sup>3</sup>	57W / 75W	66W / 76W	60W / 80W	98W / 108W	80W / 110W
Heat in BTU/hour (Typical/Max) <sup>3</sup>	195 / 256	225 / 259	205 / 273	334 / 369	273 / 376
Cooling Fan	Single Fixed Fan	Hot Swap Smart Fans	Removable Fans	Hot Swap Smart Fans	Removable Fans
Operating Ranges	Temperature 0° - 40° C   Humidity 5% - 95%				
Regulatory Certifications	FCC Class A, UL, CE, TUV, CB, VCCI, CCC, BSMI, RCM   RoHS	FCC Class A, UL, CE, TUV, CB, VCCI, CCC, MSIP, BSMI, RCM, FAC   RoHS	FCC Class A, UL, CE, TUV, CB, VCCI, CCC, BSMI, RCM   RoHS	FCC Class A, UL, CE, TUV, CB, VCCI, CCC, KCC, BSMI, RCM, FAC   RoHS, CC EAL2+	FCC Class A, UL, CE, TUV, CB, VCCI, CCC, BSMI, RCM   RoHS
Standard Warranty	90-Day Hardware and Software				

## Thunder ADC Appliance Specifications (Cont.)

<b>PERFORMANCE</b>	<b>THUNDER 3030S</b> ADC	<b>THUNDER 3040</b> ADC	<b>THUNDER 3230</b> ADC	<b>THUNDER 3430</b> ADC	<b>THUNDER 4430</b> ADC
Application Throughput (L4/L7)	30 Gbps / 30 Gbps	30 Gbps / 30 Gbps	30 Gbps / 30 Gbps	42 Gbps / 42 Gbps	38 Gbps / 38 Gbps
Layer 4 CPS	750K	750K	1.5 Million	2.5 Million	2.7 Million
Layer 4 HTTP RPS	3 Million	3 Million	7.5 Million	12 Million	12 Million
Layer 4 Concurrent Sessions	64 Million	64 Million	64 Million	128 Million	128 Million
Layer 7 CPS (1:1) <sup>1</sup>	250K	280K	420K	620K	620K
SSL Bulk Throughput <sup>2</sup>	11 Gbps	11 Gbps	14 Gbps	20 Gbps	20 Gbps
SSL CPS <sup>2</sup>	RSA (1K): 47K RSA (2K): 14K	RSA: 30K ECDSA: 20K	RSA: 40K ECDSA: 26K	RSA: 45K ECDSA: 32K	RSA (1K): 86K RSA (2K): 84K
DDoS Protection (SYN Flood) SYN/sec	7.5 Million	8 Million	55 Million	55 Million	55 Million
Application Delivery Partitions (ADP)	64	64	64	127	127
<b>NETWORK INTERFACE</b>					
1 GE Copper	6	6	0	0	0
1 GE Fiber (SFP)	2	2	4	4	0
1/10 GE Fiber (SFP+)	4	4	4	4	16
40 GE Fiber (QSFP+)	0	0	0	0	4
Management Ports	1 x Ethernet Mgmt port, 1 x RJ-45 console port, 1 x Lights Out Management				
<b>HARDWARE SPECIFICATIONS</b>					
Processor	Intel Xeon 4-core	Intel Xeon 4-core	Intel Xeon 4-core	Intel Xeon 6-core	Intel Xeon 6-core
Memory (ECC RAM)	16 GB	16 GB	16 GB	32 GB	32 GB
Storage	SSD	SSD	SSD	SSD	SSD
Hardware Acceleration	Software	Software	FTA-4	FTA-4	FTA-3
SSL Security Processor ('S' Models)	Yes	Yes	Yes	Yes	Yes
Dimensions (inches)	1.75 (H) x 17.5 (W) x 17.45 (D)	1.75 (H) x 17.5 (W) x 17.45 (D)	1.75 (H) x 17.5 (W) x 17.15 (D)	1.75 (H) x 17.5 (W) x 17.15 (D)	1.75 (H) x 17 (W) x 24.6 (D)
Rack Units (Mountable)	1U	1U	1U	1U	1U
Unit Weight	20.1 lbs	20.6 lbs	23 lbs	23 lbs	25.2 lbs
Power Supply (DC option available)	Dual 600W RPS	Dual 600W RPS	Dual 600W RPS	Dual 600W RPS	Dual 600W RPS
	80 Plus Platinum efficiency, 100 - 240 VAC, 50 – 60 Hz				
Power Consumption (Typical/Max) <sup>3</sup>	131W / 139W	180W / 240W	190W / 240W	210W / 260W	266W / 319W
Heat in BTU/hour (Typical/Max) <sup>3</sup>	447 / 474	615 / 819	648 / 819	717 / 887	908 / 1,088
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, EAC, FAC   RoHS, CC EAL2+, FIPS 140-2 <sup>1/5</sup>	FCC Class A, UL, CE, CB, GS <sup>4</sup> , 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	FCC Class A, UL, CE, TUV, CB, VCCI, CCC, KCC, BSMI, RCM, NEBS   RoHS, CC EAL2+
Standard Warranty	90-Day Hardware and Software				

## Thunder ADC Appliance Specifications (Cont.)

	THUNDER <b>4440</b> ADC	THUNDER <b>5330</b> ADC	THUNDER <b>5430-11</b> ADC	THUNDER <b>5440</b> ADC	THUNDER <b>5630</b> ADC
<b>PERFORMANCE</b>					
Application Throughput (L4/L7)	80 Gbps / 80 Gbps	78 Gbps / 78 Gbps	79 Gbps / 78 Gbps	100 Gbps / 100 Gbps	79 Gbps / 78 Gbps
Layer 4 CPS	2.9 Million	3.1 Million	3.7 Million	4 Million	6 Million
Layer 4 HTTP RPS	15 Million	15 Million	20 Million	22 Million	32.5 Million
Layer 4 Concurrent Sessions	128 Million	128 Million	256 Million	256 Million	256 Million
Layer 7 CPS (1:1) <sup>1</sup>	750K	770K	790K	950K	1.5 Million
SSL Bulk Throughput <sup>2</sup>	25 Gbps	30 Gbps	30 Gbps	45 Gbps	45 Gbps
SSL CPS <sup>2</sup>	RSA: 70K ECDSA: 42K	RSA: 70K ECDSA: 50K	RSA (1K): 111K RSA (2K): 110K	RSA: 100K ECDSA: 60K	RSA (1K): 180K RSA (2K): 174K
DDoS Protection (SYN Flood) SYN/sec	166 Million	112 Million	112 Million	166 Million	100 Million
Application Delivery Partitions (ADP)	127	127	1,023	1,023	1,023
<b>NETWORK INTERFACE</b>					
1 GE Fiber (SFP)	0	0	0	0	4
1/10 GE Fiber (SFP+)	24	8	16	24	24
40 GE Fiber (QSFP+)	4	0	4	4	4
Management Ports	1 x Ethernet Mgmt port, 1 x RJ-45 console port, 1 x Lights Out Management				
<b>HARDWARE SPECIFICATIONS</b>					
Processor	Intel Xeon 6-core	Intel Xeon 10-core	Intel Xeon 10-core	Intel Xeon 12-core	2 x Intel Xeon 8-core
Memory (ECC RAM)	32 GB	32 GB	64 GB	64 GB	128 GB
Storage	SSD	SSD	SSD	SSD	SSD
Hardware Acceleration	2 x FTA-4	FTA-4	2 x FTA-3	2 x FTA-4	4 x FTA-2
SSL Security Processor ('S' Models)	Yes	Yes	Yes	Yes	Yes
Hardware Security Module (HSM)	N/A	N/A	N/A	Yes	N/A
Dimensions (inches)	1.75 (H) x 17.5 (W) x 30 (D)	1.75 (H) x 17.5 (W) x 17.15 (D)	1.75 (H) x 17 (W) x 24.6 (D)	1.75 (H) x 17.5 (W) x 30 (D)	5.3 (H) x 16.9 (W) x 28 (D)
Rack Units (Mountable)	1U	1U	1U	1U	3U
Unit Weight	32.5 lbs	23 lbs	25.6 lbs	32.5 lbs	72 lbs / 76.5 lbs <sup>4</sup>
Power Supply (DC option available)	Dual 1100W RPS	Dual 600W RPS	Dual 600W RPS	Dual 1100W RPS	2+2 1100W RPS
	80 Plus Platinum efficiency, 100 - 240 VAC, 50 – 60 Hz				
Power Consumption (Typical/Max) <sup>3</sup>	360W / 445W	210W / 260W	288W / 345W	360W / 445W	780W / 890W
Heat in BTU/hour (Typical/Max) <sup>3</sup>	1,229 / 1,519	717 / 887	983 / 1,178	1,229 / 1,519	2,661 / 3,037
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, FIPS 140-2 <sup>1/5</sup>	FCC Class A, UL, CE, GS, CB, VCCI, CCC, BSMI, RCM, NEBS   RoHS	FCC Class A, UL, CE, TUV, CB, VCCI, CCC, KCC, BSMI, RCM   RoHS	FCC Class A, UL, CE, GS, CB, VCCI, CCC, BSMI, RCM   RoHS	FCC Class A, UL, CE, TUV, CB, VCCI, KCC, EAC, FAC   RoHS, CC EAL2+
Standard Warranty	90-Day Hardware and Software				

## Thunder ADC Appliance Specifications (Cont.)

<b>PERFORMANCE</b>	<b>THUNDER 5840</b> ADC	<b>THUNDER 6430</b> ADC	<b>THUNDER 6440</b> ADC	<b>THUNDER 6630</b> ADC	<b>THUNDER 7440</b> ADC	<b>THUNDER 7440-11</b> ADC
Application Throughput (L4/L7)	115 Gbps / 113 Gbps	150 Gbps / 145 Gbps	160 Gbps / 150 Gbps	150 Gbps / 145 Gbps	220 Gbps / 200 Gbps	220 Gbps / 200 Gbps
Layer 4 CPS	6.2 Million	5.3 Million	5.5 Million	7.1 Million	10.5 Million	10.5 Million
Layer 4 HTTP RPS	31 Million	31 Million	31 Million	38 Million	44 Million	44 Million
Layer 4 Concurrent Sessions	256 Million	256 Million	256 Million	256 Million	256 Million	256 Million
Layer 7 CPS (1:1)*1	1.5 Million	1.35 Million	1.4 Million	1.6 Million	2.8 Million	2.8 Million
SSL Bulk Throughput*2	55 Gbps	46 Gbps	60 Gbps	64 Gbps	75 Gbps	75 Gbps
SSL CPS*2	RSA: 150K ECDSA: 90K	RSA (1K): 134K RSA (2K): 130K	RSA (1K): 180K RSA (2K): 180K	RSA (1K): 190K RSA (2K): 174K	RSA (1K): 200K RSA (2K): 200K	RSA (1K): 200K RSA (2K): 200K
DDoS Protection (SYN Flood) SYN/sec	166 Million	223 Million	332 Million	223 Million	332 Million	332 Million
Application Delivery Partitions (ADP) L3V	1,023	1,023	1,023	1,023	1,023	1,023
<b>NETWORK INTERFACE</b>						
1/10 GE Fiber (SFP+)	24	16	48	12	48	48
40 GE Fiber (QSFP+)	4	4	4	0	4	0
100 GE Fiber (CXP)	0	0	0	4	0	4 (QSFP28)
Management Ports	1 x Ethernet Mgmt port, 1 x RJ-45 console port, 1 x Lights Out Management					
<b>HARDWARE SPECIFICATIONS</b>						
Processor	Intel Xeon 18-core	2 x Intel Xeon 8-core	2 x Intel Xeon 10-core	2 x Intel Xeon 12-core	2 x Intel Xeon 18-core	2 x Intel Xeon 18-core
Memory (ECC RAM)	64 GB	128 GB	128 GB	128 GB	128 GB	128 GB
Storage	SSD	SSD	SSD	SSD	SSD	SSD
Hardware Acceleration	2 x FTA-4	4 x FTA-3	3 x FTA-4	4 x FTA-3	3 x FTA-4	3 x FTA-4
SSL Security Processor ('S' Models)	Yes	Yes	Yes	Yes	Yes	Yes
Hardware Security Module (HSM)	N/A	N/A	N/A	Yes	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)	5.3 (H) x 16.9 (W) x 28 (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	3U	1U	1U
Unit Weight	32.5 lbs	39 lbs	36 lbs	74.5 lbs / 78 lbs*4	36 lbs	37 lbs
Power Supply (DC option available)	Dual 1100W RPS	Dual 1100W RPS	Dual 1100W RPS	2+2 1100W RPS	Dual 1100W RPS	Dual 1500W RPS
	80 Plus Platinum efficiency, 100 - 240 VAC, 50 - 60 Hz					
Power Consumption (Typical/Max)*3	375W / 470W	590W / 680W	480W / 550W	995W / 1,150W	690W / 820W	820W / 950W
Heat in BTU/hour (Typical/Max)*3	1,280 / 1,604	2,013 / 2,320	1,638 / 1,877	3,395 / 3,924	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, TUV, CB, VCCI, CCC, KCC, BSMI, RCM, EAC, FAC, NEBS   RoHS, CC EAL2+	FCC Class A, UL, CE, GS, CB, VCCI, CCC, BSMI, RCM   RoHS	FCC Class A, UL, CE, TUV, CB, VCCI, KCC*, EAC, FAC   RoHS, CC EAL2+, FIPS 140-2*5	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*
Standard Warranty	90-Day Hardware and Software					

The specifications, performance numbers are subject to change without notice, and may vary depending on configuration and environmental conditions. As for network interface, 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. Products showing both RSA and ECDSA are tested using 3rd generation SSL card(s). 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 SSL model | \*4 With maximum SSL option | \*5 For FIPS 140-2 Level 2 validated, FIPS models must be purchased | \*6 Optional RPS available | ^ Certification in process

# THUNDER ADC SPE APPLIANCE SPECIFICATIONS

	THUNDER <b>4435</b> SPE	THUNDER <b>5435</b> SPE	THUNDER <b>6435</b> SPE	THUNDER <b>6635</b> SPE
<b>PERFORMANCE</b>				
Application Throughput (L4/L7)	38 Gbps / 38 Gbps	78 Gbps / 77 Gbps	153 Gbps / 150 Gbps	150 Gbps / 145 Gbps
Layer 4 CPS	3.1 Million	3.7 Million	7.1 Million	7.1 Million
Layer 4 HTTP RPS	12 Million	20 Million	38 Million	38 Million
Layer 4 Concurrent Sessions	128 Million	256 Million	256 Million	256 Million
Layer 7 CPS (1:1) <sup>*1</sup>	660K	790K	1.6 Million	1.6 Million
SSL Bulk Throughput (RSA 2K keys) <sup>*2</sup>	26 Gbps	37 Gbps	60 Gbps	64 Gbps
SSL CPS (RSA 2K keys) <sup>*2</sup>	65K	65K	135K	174K
DDoS Protection (SYN Flood) SYN/sec	55 Million	112 Million	223 Million	223 Million
Application Delivery Partitions (ADP)	1,023	1,023	1,023	1,023
<b>NETWORK INTERFACE</b>				
1/10 GE Fiber (SFP+)	16	16	16	12
40 GE Fiber (QSFP+)	0	4	4	0
100 GE Fiber (CXP)	0	0	0	4
Management Ports	1 x Ethernet Mgmt port, 1 x RJ-45 console port, 1 x Lights Out Management			
<b>HARDWARE SPECIFICATIONS</b>				
Processor (Intel Xeon)	10-core	10-core	2 x 12-core	2 x 12-core
Memory (ECC RAM)	64 GB	64 GB	128 GB	128 GB
Storage	SSD	SSD	SSD	SSD
Hardware Acceleration	FTA-3, SPE	2 x FTA-3, SPE	4 x FTA-3, SPE	4 x FTA-3, SPE
SSL Security Processor ('S' Models)	N/A	N/A	Yes	Yes
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)	5.3 (H) x 16.9 (W) x 28 (D)
Rack Units (Mountable)	1U	1U	1U	3U
Unit Weight	34.5 lbs	35.5 lbs	39 lbs	74.5 lbs / 78 lbs <sup>*4</sup>
Power Supply (DC option available)	350W / 420W	400W / 480W	620W / 710W	995W / 1,150W
	80 Plus Platinum efficiency, 100 - 240 VAC, 50 – 60 Hz			
Power Consumption (Typical/Max) <sup>*3</sup>	350W / 420W	400W / 480W	620W / 710W	995W / 1,150W
Heat in BTU/hour (Typical/Max) <sup>*3</sup>	1,195 / 1,433	1,365 / 1,638	2,116 / 2,423	3,395 / 3,924
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	FCC Class A, UL, CE, TUV, CB, VCCI, CCC, BSMI, RCM, EAC, NEBS   RoHS	FCC Class A, UL, CE, TUV, CB, VCCI, CCC, BSMI, RCM, EAC, NEBS   RoHS	FCC Class A, UL, CE, TUV, CB, VCCI, EAC, FAC   RoHS
Standard Warranty	90-Day Hardware and Software			

The specifications, performance numbers are subject to change without notice, and may vary depending on configuration and environmental conditions. As for network interface, 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, using cipher "TLS\_RSA\_WITH\_AES\_128\_CBC\_SHA" with RSA 2K keys | \*3 With base model. Number varies by SSL model \*4 With maximum SSL option

# THUNDER HVA APPLIANCE SPECIFICATIONS

	THUNDER <b>3030S</b> HVA	THUNDER <b>3530S</b> HVA
<b>PERFORMANCE</b>		
Throughput*	35 Gbps	100 Gbps
vThunder Virtual Appliances Instances (Included)	8	40
<b>NETWORK INTERFACE</b>		
1 GE Copper	6	4
1 GE Fiber (SFP)	2	2
1/10 GE Fiber (SFP+)	4	12
Management Ports	1 x Ethernet Mgmt port, 1 x RJ-45 console port, 1 x Lights Out Management	
<b>HARDWARE SPECIFICATIONS</b>		
Processor (Intel Xeon)	4-core	2 x 10-core
Memory (ECC RAM)	32 GB	128 GB
Storage	SSD	SSD
Hardware Acceleration	Software	Software
SSL Security Processor (SR-IOV enabled)	Yes	Yes
Dimensions (inches)	1.75 (H) x 17.5 (W) x 17.45 (D)	1.75 (H) x 17.25 (W) x 22.8 (D)
Rack Units (Mountable)	1U	1U
Unit Weight	20.1 lbs	29.6 lbs
Power Supply (DC option available)	Dual 600W RPS	Dual 750W RPS
	80 Plus Platinum efficiency, 100 - 240 VAC, 50 – 60 Hz	80 Plus Gold efficiency, 100 - 240 VAC, 50 – 60 Hz
Power Consumption (Typical/Max)	131W / 139W	380W / 476W
Heat in BTU/hour (Typical/Max)	447 / 474	1,297 / 1,624
Cooling Fan	Hot Swap Smart Fans	Hot Swap Smart Fans
Operating Ranges	Temperature 0° - 40° C   Humidity 5% - 95%	
Regulatory Certifications	FCC Class A*, UL*, CE*, TUV*, CB*, VCCI*, China CCC*, BSMI*, RCM*, EAC*, FAC*	
Standard Warranty	90-Day Hardware and Software	

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

\* Performance varies by number of virtual machines running and hardware resources assigned | ^ Certification in process

## THUNDER ADC FOR LOW LATENCY APPLIANCE SPECIFICATIONS

	THUNDER 4435	THUNDER 3745
<b>PERFORMANCE</b>		
Mean Latency L7	3.9 $\mu$ s	1.80 $\mu$ s
Max Latency L7	4.2 $\mu$ s	1.85 $\mu$ s
Jitter L7	0.4 $\mu$ s	0.086 $\mu$ s
Concurrent NAT Sessions	32,000	128,000
<b>NETWORK INTERFACE</b>		
1/10 GE Fiber (SFP+)	16	4
Management Ports	1 x Ethernet Mgmt port, 1 x RJ-45 console port, 1 x Lights Out Management	
<b>HARDWARE SPECIFICATIONS</b>		
Processor (Intel Xeon)	10-core	8-core
Memory (ECC RAM)	64 GB	32 GB
Storage	SSD	SSD
Hardware Acceleration	FTA-3, SPE	FTA-3, SPE
Dimensions (inches)	1.75 (H) x 17.5 (W) x 30 (D)	5.25 (H) x 19 (W) x 25.75 (D)
Rack Units (Mountable)	1U	3U
Unit Weight	34.5 lbs	53 lbs
Power Supply (DC option available)	Dual 1100W RPS	Dual 600W RPS
	80 Plus Platinum efficiency, 100 - 240 VAC, 50 – 60 Hz	
Power Consumption (Typical/Max)	350W / 420W	250W / 520W
Heat in BTU/hour (Typical/Max)	1,195 / 1,433	853 / 1,775
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	FCC Class A*, UL*, CE*, CB*, VCCI*, CCC*, BSMI*, RCM*
Standard Warranty	90-Day Hardware and Software	

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

^ Certification in process

# VTHUNDER ADC VIRTUAL APPLIANCE

## vTHUNDER ADC

Supported Hypervisors	VMware ESXi 4.1 or higher KVM QEMU 1.0 or higher (VirtIO, OvS with DPDK, SR-IOV) 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
VMware ESXi	●	●	●	●	●	●	
KVM (KVM   OvS-DPDK)	●	●	●	●	●	●	●
KVM	●	●	●	●	●		
Microsoft Hyper-V	●	●	●	●	●*		

\* 8 Gbps license not recommended for Microsoft Hyper-V

## vTHUNDER ADC FOR CLOUD

### AWS

### AZURE

Throughput	<ul style="list-style-type: none"> <li>Pre-installed License: up to 500 Mbps</li> <li>BYOL (Bring Your Own License) Editions: up to 1 Gbps</li> </ul>	<ul style="list-style-type: none"> <li>Pre-installed License: up to 500 Mbps</li> <li>BYOL (Bring Your Own License) Editions: up to 500 Mbps</li> </ul>
Image Format	Amazon AMI	Microsoft VHD
Bandwidth Licenses	vThunder for AWS Pre-installed License: <ul style="list-style-type: none"> <li>10 Mbps</li> <li>50 Mbps</li> <li>100 Mbps</li> <li>200 Mbps</li> <li>500 Mbps</li> </ul> vThunder for AWS BYOL Editions: <ul style="list-style-type: none"> <li>Lab/Developer</li> <li>200 Mbps</li> <li>1 Gbps</li> </ul>	vThunder for Azure Pre-installed License: <ul style="list-style-type: none"> <li>10 Mbps</li> <li>50 Mbps</li> <li>100 Mbps</li> <li>200 Mbps</li> <li>500 Mbps</li> </ul> vThunder for Azure BYOL Editions: <ul style="list-style-type: none"> <li>Lab/Developer</li> <li>200 Mbps</li> <li>500 Mbps</li> </ul>

## VTHUNDER ADC FOR BARE METAL

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

\* Licenses are tied with maximum number of cores which can be allocated to ACOS

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