SPEC SHEET

Thunder ADC Physical Appliance Specifications

	Thunder 1060S ADC		Thunder 3350-E ADC	Thunder 3350 ADC
Modular License	20 Gbps	35 Gbps	–	–
Performance				
Application Throughput (L4/L7)	20 Gbps / 20 Gbps	35 Gbps / 35 Gbps	30 Gbps / 30 Gbps	40 Gbps / 40 Gbps
Layer 4 CPS	550K	800K	800K	1 Million
Layer 4 Concurrent Sessions	128 Million	128 Million	64 Million	96 Million
Layer 7 CPS (1:1)[*1]	200K	480K	330K	500K
SSL Bulk Throughput[*2]	9 Gbps	18 Gbps	13 Gbps	18 Gbps
SSL CPS[*2]	RSA: 15K ECDSA: 8K	RSA: 28K ECDSA: 16K	RSA: 28K ECDSA: 15K	RSA: 28K ECDSA: 15K
DDoS Protection (SYN flood) SYN/sec	4 Million	8 Million	8 Million	8 Million
Network Interfaces				
1 GE (BASE-T)	7		6	6
1 GE Fiber (SFP)	0		2	2
10/1 GE Fiber (SFP+/SFP)	4		8 + 4[*6]	4[*6]
25/10 GE Fiber (SFP28/SFP+)	2		0	4
40 GE Fiber (QSFP+)	0		0	4
100/40 GE Fiber (QSFP28/QSFP+)	0		0	0
Management Ports	Ethernet mgmt. port, RJ-45 console port			
Hardware Specifications				
Processor	Intel communications processor 20-core [9-core actve]	Intel communications processor 20-core	Intel Xeon 8-core	Intel Xeon 8-core
Memory (ECC RAM)	32 GB	32 GB	16 GB	32 GB
Storage	SSD		SSD	SSD
Hardware Acceleration	Software		Software	Software
TLS/SSL Security Acceleration	Hardware		Hardware	Hardware
Dimensions (inches)	1.75 (H) x 17.5 (W) x 17(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
Unit Weight[*3]	12 lbs		18 lbs	18 lbs
Power Supply (DC option available)	Dual 300W RPS		Dual 750W RPS	Dual 750W RPS
	80 Plus Gold efficiency, 100 - 240 VAC, 50 – 60 Hz		80 Plus Platinum efficiency, 90 - 264 VAC, 50 – 60 Hz	
Power Consumption (typical/max)[*3]	112W / 127W		151W / 205W	165W / 238W
Heat in BTU/hour (typical/max)[*3]	383 / 434		516 / 700	564 / 831
Cooling Fan (front-to-back airflow)	Removable fans			
Operating Ranges	Temperature 0° - 40° C | Humidity 5% - 95%			
Regulatory Certifications	FCC Class A, UL, ICES, CE, UKCA, CB, VCCI, BSMI, RCM, MTCTE^, ANATEL | RoHS		FCC Class A, UL, CE, UKCA, VCCI, BSMI, RCM, MTCTE^ | RoHS	FCC Class A, UL, CE, UKCA, CB, VCCI, KCC, BSMI, RCM, MTCTE^ | RoHS
Standard Warranty	90-day hardware and software			

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Thunder ADC Physical Appliance (cont.)

	Thunder 3350S ADC*7	Thunder 3360S ADC		
Modular License	50 Gbps	50 Gbps	100 Gbps	150 Gbps
Performance				
Application Throughput (L4/L7)	50 Gbps/ 50 Gbps	50 Gbps / 45 Gbps	100 Gbps / 90 Gbps	150 Gbps / 130 Gbps
Layer 4 CPS	2 Million	1.5 Million	2 Million	3 Million
Layer 4 Concurrent Sessions	128 Million	256 Million	256 Million	256 Million
Layer 7 CPS (1:1)*1	750K	1 Million	1.4 Million	2 Million
SSL Bulk Throughput*2	30 Gbps	30 Gbps	40 Gbps	50 Gbps
SSL CPS*2	RSA: 60K ECDSA: 35K	RSA: 60K ECDSA: 30K	RSA: 75K ECDSA: 40K	RSA: 120K ECDSA: 60K
DDoS Protection (SYN flood) SYN/sec	16 Million	16 Million	24 Million	32 Million
Network Interfaces				
1 GE (BASE-T)	6	8		
1 GE Fiber (SFP)	2	0		
10/1 GE Fiber (SFP+/SFP)	8 + 4*6	8		
25/10 GE Fiber (SFP28/SFP+)	0	4		
40 GE Fiber (QSFP+)	0	0		
100/40 GE Fiber (QSFP28/QSFP+)	0	2		
Management Ports	Ethernet mgmt. port, RJ-45 console port			
Hardware Specifications				
Processor	Intel Xeon 14-core	Intel Xeon 24-core [11-core active]	Intel Xeon 24-core [12-core active]	Intel Xeon 24-core
Memory (ECC RAM)	64 GB	64 GB	64 GB	64 GB
Storage	SSD	SSD		
Hardware Acceleration	Software	Software		
TLS/SSL Security Acceleration	Hardware	Hardware		
Dimensions (inches)	1.75 (H) x 17.5 (W) x 18(D)	1.75 (H) x 17.5 (W) x 26.8(D)		
Rack Units (mountable)	1U	1U		
Unit Weight*3	18 lbs	30.2 lbs		
Power Supply (DC option available)	Dual 750W RPS	Dual 1300W RPS		
	80 Plus Platinum efficiency, 90 - 264 VAC, 50 – 60 Hz	80 Plus Platinum efficiency, 100 - 240 VAC, 50 – 60 Hz		
Power Consumption (typical/max)*3	175W / 222W	343W / 432 W		
Heat in BTU/hour (typical/max)*3	598 / 758	1,171 / 1,475		
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, UKCA, CB, VCCI, KCC, BSMI, RCM, MTCTE+ | RoHS, FIPS 140-2*5	FCC Class A, UL^, ICES, CE, UKCA, CB^, VCCI, KCC^, BSMI^, RCM, MTCTE^, ANATEL^ | RoHS^		
Standard Warranty	90-day hardware and software			

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Thunder ADC Physical Appliance (cont.)

	Thunder 7460S ADC			Thunder 7460S-MAX ADC
Modular License	150 Gbps	200 Gbps	250 Gbps	-
Performance				
Application Throughput (L4/L7)	150 Gbps / 130 Gbps	200 Gbps / 175 Gbps	250 Gbps / 220 Gbps	270 Gbps / 235 Gbps
Layer 4 CPS	5 Million	7 Million	9 Million	11 Million
Layer 4 Concurrent Sessions	256 Million	256 Million	256 Million	256 Million
Layer 7 CPS (1:1)[*1]	2 Million	2.5 Million	3.3 Million	3.5 Million
SSL Bulk Throughput[*2]	75 Gbps	85 Gbps	90 Gbps	95 Gbps
SSL CPS[*2]	RSA: 140K ECDSA: 85K	RSA: 180K ECDSA: 100K	RSA: 210K ECDSA: 120K	RSA: 290K ECDSA: 130K
DDoS Protection (SYN flood) SYN/sec	275 Million	275 Million	275 Million	275 Million
Network Interfaces				
1 GE (BASE-T)	0			
1 GE Fiber (SFP)	0			
10/1 GE Fiber (SFP+/SFP)	0			
25/10 GE Fiber (SFP28/SFP+)	24			
40 GE Fiber (QSFP+)	0			
100/40 GE Fiber (QSFP28/QSFP+)	8			
Management Ports	Ethernet mgmt. port, RJ-45 console port			
Hardware Specifications				
Processor	Intel Xeon 36-core [20-core active]	Intel Xeon 36-core [28-core active]	Intel Xeon 36-core	Intel Xeon 52-core
Memory (ECC RAM)	256 GB [192 GB active]	256 GB [192 GB active]	256 GB [192 GB active]	256 GB
Storage	SSD			
Hardware Acceleration	1 x FTA-6			
TLS/SSL Security Acceleration	Hardware			
Dimensions (inches)	1.75 (H) x 17.5 (W) x 30 (D)			
Rack Units (mountable)	1U			
Unit Weight[*3]	39.75 lbs			
Power Supply (DC option available)	Dual 1500W RPS			
	80 Plus Platinum efficiency, 90 - 264 VAC, 50 – 60 Hz			
Power Consumption (typical/max)[*3]	710W / 790W			
Heat in BTU/hour (typical/max)[*3]	2,423 / 2,696			
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, UKCA, VCCI, KCC, BSMI, RCM, MTCTE, ANATEL | 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. 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 10Gbps speed only | *7 Performance numbers are measured with ACOS 5.2.1 release code | *8 Currently, only the base model is available; the S-model with hardware TLS/SSL acceleration has reached its end of sales. | ^ Certification in process | + Select hardware SSL model only, certification in process

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Thunder ADC SPE Physical Appliance Specifications

	Thunder 6655S ADC	Thunder 7655S ADC
Modular License	-	-
Performance		
Application Throughput (L4/L7)	185 Gbps / 170 Gbps	370 Gbps / 340 Gbps
Layer 4 CPS	6 Million	12 Million
Layer 4 Concurrent Sessions	384 Million	768 Million*3
Layer 7 CPS (1:1)*1	2.25 Million	4.5 Million
SSL Bulk Throughput*2	72.5 Gbps	145 Gbps
SSL CPS*2	RSA: 100K ECDSA: 70K	RSA: 200K ECDSA: 140K
DDoS Protection (SYN flood) SYN/sec	250 Million	500 Million
Network Interfaces		
100/40 GE Fiber (QSFP28/QSFP+)	16	16
Management Ports	Ethernet mgmt. port, RJ-45 console port, Lights out management	
Hardware Specifications		
Processor (Intel Xeon)	28-core	2 x 28-core
Memory (ECC RAM)	192 GB	384 GB
Storage	SSD	SSD
Hardware Acceleration	FTA-5, SPE	2 x FTA-5, SPE
TLS/SSL Security Acceleration	Hardware	Hardware
Dimensions (Inches)	2.625 (H) x 17.5 (W) x 30 (D)	2.625 (H) x 17.5 (W) x 30 (D)
Rack Units (mountable)	1.5U	1.5U
Unit Weight	39 lbs	44.2 lbs
Power Supply (DC option available)	Dual 1500W RPS	Dual 1500W RPS
	80 Plus Platinum Efficiency, 90 - 264 VAC, 50 – 60 Hz	
Power Consumption (typical/max)	667W / 856W	1,121W / 1,300W
Heat in BTU/hour (typical/max)	2,276 /2,921	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, UKCA, CB, VCCI, BSMI, RCM | RoHS, FIPS 140-2^*4	FCC Class A, UL, CE, UKCA, CB, VCCI, BSMI, RCM, MTCTE | RoHS, FIPS 140-2^*4
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 Cipher "TLS_RSA_WITH_AES_128_CBC_SHA256" with 2K keys for RSA cases, "TLS_ECDHE_ECDSA_WITH_AES_128_CBC_SHA256" with EC P-256 for ECC cases | *3 Capacity has been increased (doubled) from ACOS 5.2.1-P7/6.0.1 onward | *4 For FIPS 140-2 Level 2 validated, FIPS models must be purchased | ^ Certification in process

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Thunder ADC for Low-latency Appliance Specifications

	Thunder 3745
Performance	
Mean Latency L7[*1]	1.901 µs
Max Latency L7	1.945 µs
Concurrent NAT Sessions	32,000
Network Interfaces	
10/1 GE Fiber (SFP+/SFP)	4[*3]
Management Ports	Ethernet mgmt. port, RJ-45 console port
Hardware Specifications	
Processor (Intel Xeon)	2 x 8-core
Memory (ECC RAM)	96 GB
Storage	SSD
Hardware Acceleration	FPM[*2]
Dimensions (Inches)	3.5 (H) x 19 (W) x 27.5 (D)
Rack Units (mountable)	2U
Unit Weight	43.8 lbs
Power Supply (DC option available)	Dual 850 W RPS 80 Plus Platinum efficiency, 100 - 240 VAC, 50 – 60 Hz
Power Consumption (typical/max)	450W / 463W
Heat in BTU/hour (typical/max)	1,536 / 1,580
Cooling Fan (front-to-back airflow)	Hot swap smart fans
Operating Ranges	Temperature 0° - 40° C | Humidity 5% - 95%
Regulatory Certifications	FCC Class A, CE, VCCI, RCM, UKCA, UL/CB
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 99th percentile. All the performance numbers are measured using FIX protocol with 670B packet size. | *2 Flow processing module (FPM) consists of FTA-3 (Flexible Traffic Accelerator) and SPE (Security and Policy Engine). | *3 10Gbps speed only | ^ Certification in process

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A10 Thunder Multi-tenant Virtual Platform (MVP) Specifications

A10 Thunder MVP is an advanced muti-tenancy solution enabling multiple virtual instances of Application Delivery Controller (ADC) along with an expanded feature set of A10 capabilities on a purpose-built hardware.

ADC Performance	A10 Thunder MVP+
Appliaction Throughput (L4 / L7)	200 Gbps / 200 Gbps
Connections Per Second (L4 / L7)*1	4.7 million / 2.7 million
SSL Bulk Throughput*2	60 Gbps
SSL CPS (RSA / ECDSA)*2	166K / 83K
vThunder Instances	Up to 14
Reference Platform Specifications	
Processor	2 x Intel Xeon 32-core
Memory	256 GB
Storage	2 x SSD
Network Interfaces	4 x 25/10 GE Fiber (SFP28/SFP+), 4 x 100/40 GE Fiber (QSFP28/QSFP+)
TLS/SSL Security Processor	Integrated QAT
Power Supply	Dual 1400W redundant power supply

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 TLS 1.3 and RSA (2K keys) cipher: "TLS_RSA_WITH_AES_128_CBC_SHA256" and ECDSA (EC P-256) cipher: "TLS_ECDHE_ECDSA_WITH_AES_128_CBC_SHA256"
+ Available bandwidth license: 100, 150, 200 Gbps. Maximum throughput performance depends on the license.
Thunder MVP performance specifications are aggregate number that use the following VM profiles:
- A10 Thunder MVP is tested on Dell R760 with 14-VM profile (6 vCPUs, 16 GB memory, 60GB storage, 4 SSL virtual functions (VFs) assigned on each vThunder)

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Thunder ADC Software Appliance Specifications

vThunder ADC	
Supported Hypervisors	VMware ESXi (VMXNET3, SR-IOV, PCI Passthrough), KVM (VirtIO, OvS with DPDK, SR-IOV, PCI Passthrough)
Hardware Requirements	See installation guide
Licenses*5	30-day trial license Bandwidth license: Lab, 25 Mbps, 100 Mbps, 200 Mbps, 1 Gbps, 3 Gbps, 5 Gbps, 10 Gbps*1, 20 Gbps*1|*2, 40 Gbps*1|*2, 100 Gbps*2 FlexPool license
Standard Warranty	90-day software

Thunder ADC for Public Cloud	AWS	Microsoft Azure	Google Cloud	Oracle Cloud
Product on Marketplace	Thunder ADC for AWS	Thunder ADC for Azure	Thunder ADC for GCP	vThunder Application Delivery Controller (ADC)
Throughput*3	Up to 10 Gbps	Up to 10 Gbps	Up to 10 Gbps	Up to 24 Gbps
Licenses*3	30-day trial license Pre-installed bandwidth license: • 20 Mbps, 100 Mbps, 200 Mbps, 500 Mbps, 1 Gbps, 5 Gbps, 10 Gbps BYOL bandwidth license FlexPool license	30-day trial license Pre-installed bandwidth license: • 20 Mbps, 100 Mbps, 200 Mbps, 500 Mbps, 1 Gbps, 5 Gbps, 10 Gbps BYOL bandwidth license FlexPool license	30-day trial license Pre-installed bandwidth license: • 20 Mbps, 100 Mbps, 200 Mbps, 500 Mbps, 1 Gbps, 5 Gbps, 10 Gbps BYOL bandwidth license FlexPool license	30-day trial license Pre-installed bandwidth license: • 1 OCPU to 24 OCPU BYOL bandwidth license FlexPool license

Thunder ADC Container	
Image Format	Open Container Initiative (OCI) compliant
Operating System	RedHat OpenShift Container Platform (OCP) (Version 4.16)
System Requirements	• Minimum 4 vCPU and 16GB memory • One or more data interfaces • SR-IOV support using NVIDIA or Intel NICs
Licenses	BYOL bandwidth license FlexPool license
Trial Details	Contact A10 Sales

Thunder ADC for Bare Metal	
System Requirements	See installation guide
Reference Platforms	Dell PowerEdge R760, Supermicro X13
Bandwidth Licenses*4	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 | *3 Per-instance maximum throughput varies depending on instance type and configurations | *4 Licenses are tied to the maximum number of CPU cores that can be allocated to ACOS | *5 Actual throughput varies depending on the system configuration and solutions in use. Bandwidth license is available with a choice of perpetual or term-based licenses.

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