

## A10 Defend DDoS Mitigator Physical Appliance Specifications

DDoS Mitigator	Thunder 1060S*4	Thunder 3350-E	Thunder 5845-40G	Thunder 5845
<b>Mitigation Performance</b>				
Throughput (software scrubbing)*1	5/10/20 Gbps	10 Gbps	40 Gbps	100 Gbps
Hardware Blocking	N/A	N/A	250 Gbps	250 Gbps
Packets Rate (pps)*1	2.5/5/8 Million	6 Million	12 Million	25 Million
Software-based - SYN Authentication (pps)	2.5/5/8 Million	6 Million	12 Million	25 Million
Hardware-based - Anomaly Flood Blocking (pps)	N/A	N/A	125 Million	125 Million
Maximum Concurrent Sessions (asymmetric deployment)	8/10/16 Million	8 Million	32 Million	48 Million
Average Latency	15 µs	20 µs	50 µs	50 µs
Minimum Rate Enforcement Interval	100 ms	100 ms	100 ms	100 ms
<b>DNS Authoritative Cache Performance</b>				
DNS Queries Per Second (qps)	N/A	N/A	10 Million	18 Million
<b>Network Interface</b>				
1 GE (BASE-T)	7	6	0	0
1 GE Fiber (SFP)	0	2	0	0
10/1 GE Fiber (SFP+/SFP)	4	8 + 4*3	48	48
25/10 GE Fiber (SFP28/SFP+)	2	0	0	0
40 GE Fiber (QSFP+)	0	0	0	0
100/40 GE Fiber (QSFP28/QSFP+)	0	0	4	4
400 GE Fiber (QSFP-DD)	0	0	0	0
Management Ports	Ethernet mgmt. port, RJ-45 console port			
<b>Hardware Specifications</b>				
Processor	Intel communications processor 20-core*5	Intel Xeon 8-core	Intel Xeon 18-core*5	Intel Xeon 18-core
Memory (ECC RAM)	32 GB	16 GB	64 GB	64 GB
Storage	SSD	SSD	SSD	SSD
Hardware Acceleration	Software	Software	2 x FTA-4, SPE	2 x FTA-4, SPE
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 30 (D)	1.75 (H) x 17.5 (W) x 30 (D)
Rack Units (mountable)	1U	1U	1U	1U
Unit Weight	12 lbs	18 lbs	34.3 lbs	34.3 lbs
Power Supply (DC option available)	Dual 300W RPS	Dual 750W RPS	Dual 1500W RPS	Dual 1500W RPS
	80 Plus Gold efficiency, 100 - 240 VAC, 50 - 60 Hz	80 Plus Platinum efficiency, 100-240 VAC, 50-60 Hz		
Power Consumption (typical/max)*2	112W / 127W	151W / 205W	585W / 921W	585W / 921W
Heat in BTU/Hour (typical/max)*2	383 / 434	516 / 700	1,997 / 3,143	1,997 / 3,143
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*, ICES, CE, UKCA, CB*, VCCI, BSMI*, RCM   RoHS	FCC Class A, UL, CE, UKCA, CB, VCCI, BSMI, RCM, MTCTE*   RoHS	FCC Class A, UL, CE, UKCA, CB, VCCI, KCC, BSMI, RCM, MTCTE*   RoHS	FCC Class A, UL, CE, UKCA, CB, VCCI, KCC, BSMI, RCM, MTCTE*   RoHS
Standard Warranty	90-day hardware and software			

## A10 Defend DDoS Mitigator Physical Appliance (cont.)

DDoS Mitigator	Thunder 7465		
Modular License	40 Gbps	100 Gbps	270 Gbps
<b>Mitigation Performance</b>			
Throughput (software scrubbing) <sup>1</sup>	40 Gbps	100 Gbps	270 Gbps
Hardware Blocking	800 Gbps	800 Gbps	1 Tbps
Packets Rate (pps) <sup>1</sup>	13 Million	28 Million	60 Million
Software-based - SYN Authentication (pps)	13 Million	28 Million	60 Million
Hardware-based - Anomaly Flood Blocking (pps)	550 Million	550 Million	550 Million
Maximum Concurrent Sessions (asymmetric deployment)	32 Million	64 Million	128 Million
Average Latency	40 µs	40 µs	40 µs
Minimum Rate Enforcement Interval	100 ms	100 ms	100 ms
<b>DNS Authoritative Cache Performance</b>			
DNS Queries Per Second (qps)	N/A	N/A	N/A
<b>Network Interface</b>			
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		
400 GE Fiber (QSFP-DD)	0		
Management Ports	Ethernet mgmt. port, RJ-45 console port		
<b>Hardware Specifications</b>			
Processor	Intel Xeon 36-core <sup>5</sup>		
Memory (ECC RAM)	256 GB		
Storage	SSD		
Hardware Acceleration	1 x FTA-6, SPE		
Dimensions (inches)	1.75 (H) x 17.5 (W) x 30 (D)		
Rack Units (mountable)	1U		
Unit Weight	38.5 lbs		
Power Supply (DC option available)	Dual 1500W RPS 80 Plus Platinum efficiency, 100-240 VAC, 50-60 Hz		
Power Consumption (typical/max) <sup>2</sup>	680W / 770W		
Heat in BTU/Hour (typical/max) <sup>2</sup>	2,321 / 2,628		
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 <sup>†</sup> , RCM, MTCTE <sup>†</sup> , ANATEL <sup>†</sup>   RoHS		
Standard Warranty	90-day hardware and software		

# A10 Defend DDoS Mitigator Physical Appliance (cont.)

DDoS Mitigator	Thunder 7445	Thunder 7655S	Thunder 8665S
<b>Mitigation Performance</b>			
Throughput (software scrubbing) <sup>*1</sup>	220 Gbps	380 Gbps	550 Gbps
Hardware Blocking	500 Gbps	1.2 Tbps	4.8 Tbps
Packets Rate (pps) <sup>*1</sup>	50 Million	100 Million	120 Million
Software-based - SYN Authentication (pps)	50 Million	100 Million	110 Million
Hardware-based - Anomaly Flood Blocking (pps)	250 Million	500 Million	820 Million
Maximum Concurrent Sessions (asymmetric deployment)	64 Million	256 Million	350 Million
Average Latency	60 μs	40 μs	40 μs
Minimum Rate Enforcement Interval	100 ms	100 ms	100 ms
<b>DNS Authoritative Cache Performance</b>			
DNS Queries Per Second (qps)	35 Million	N/A	N/A
<b>Network Interface</b>			
1 GE (BASE-T)	0	0	0
1 GE Fiber (SFP)	0	0	0
10/1 GE Fiber (SFP+/SFP)	48	0	0
25/10 GE Fiber (SFP28/SFP+)	0	0	0
40 GE Fiber (QSFP+)	0	0	0
100/40 GE Fiber (QSFP28/QSFP+)	4	16	0
400 GE Fiber (QSFP-DD)	0	0	12
Management Ports	Ethernet mgmt. port, RJ-45 console port		2 x Ethernet mgmt. port, RJ-45 console port
<b>Hardware Specifications</b>			
Processor	2 x Intel Xeon 18-core	2 x Intel Xeon 28-core	2 x Intel Xeon 36-core
Memory (ECC RAM)	128 GB	384 GB	512 GB
Storage	SSD	SSD	SSD
Hardware Acceleration	3 x FTA-4, SPE	2 x FTA-5, SPE	3 x FTA-6, SPE
Dimensions (inches)	1.75 (H) x 17.5 (W) x 30 (D)	2.625 (H) x 17.5 (W) x 30 (D)	2.625 (H) x 17.5 (W) x 30 (D)
Rack Units (mountable)	1U	1.5U	1.5U
Unit Weight	35.7 lbs	44.2 lbs	44.9 lbs
Power Supply (DC option available)	Dual 1500W RPS	Dual 1500W RPS	Dual 2500W RPS
	80 Plus Platinum efficiency, 100-240 VAC, 50-60 Hz		
Power Consumption (typical/max) <sup>*2</sup>	784W / 1,078W	1,121W / 1,300W	1,491W / 1,720W
Heat in BTU/Hour (typical/max) <sup>*2</sup>	2,676 / 3,679	3,826 / 4,436	5,088 / 5,869
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, MTCTE <sup>^</sup>   RoHS	FCC Class A, UL, CE, UKCA, CB, VCCI, BSMI, RCM, MTCTE <sup>^</sup>   RoHS	FCC Class A, UL, CE, UKCA, CB, VCCI, 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. As for network interface, it's highly recommended to use A10 Networks qualified optics/transceivers to ensure network reliability and stability.

<sup>\*1</sup> Throughput performances are traffic-forwarding capacity and measured with legitimate traffic with DDoS protection enabled.

<sup>\*2</sup> With base model | <sup>\*3</sup> 10Gbps speed only | <sup>\*4</sup> Available in different capacity with modular license. Specifications and numbers vary based on the modular license tier

<sup>\*5</sup> Active CPU core counts may vary depending on the modular license | <sup>^</sup> Certification in process

# A10 Defend DDoS Mitigator Software Specifications

## A10 Defend DDoS Mitigator Virtual Appliance

Supported Hypervisors	VMware ESXi 7.0 or higher (SR-IOV, DirectPath I/O), KVM QEMU (SR-IOV, PCI Passthrough)
Hardware Requirements	See installation guide
Standard Warranty	90-day software

## Virtual Appliance License and Sizing Recommendations

Throughput	Lab/1/2/5 Gbps	50 Gbps <sup>*1</sup>	100 Gbps <sup>*1</sup>
vCPU	8	16	32
vRAM	16 GB	32 GB	64 GB
vDisk	128 GB	256 GB	384 GB
Licence Types	Bandwidth license (per instance)	FlexPool	FlexPool
Hypervisors	ESXi, KVM	ESXi, KVM	ESXi, KVM

\*1 Supported in ACOS 6.0 and above for ESXi and ACOS 7.0.2 and above for KVM, and tested with with NVIDIA Mellanox ConnectX-6 NIC.

A10 Defend DDoS Mitigator for Cloud	Microsoft Azure
Throughput per instance	Up to 5 Gbps
Image Format	Microsoft VHD
Licenses	30-day trial license   BYOL FlexPool license

## About A10

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