

A10 Defend DDoS Mitigator Physical Appliance Specifications

DDoS Mitigator	Thunder 1060S*4	Thunder 3350-E
Mitigation Performance		
Throughput (software scrubbing) ¹	5/10/20 Gbps	10 Gbps
Hardware Blocking	N/A	N/A
Packets Rate (pps) ¹	2.5/5/8 Million	6 Million
Software-based - SYN Authentication (pps)	2.5/5/8 Million	6 Million
Hardware-based - Anomaly Flood Blocking (pps)	N/A	N/A
Maximum Concurrent Sessions (asymmetric deployment)	8/10/16 Million	8 Million
Average Latency	15 μs	20 μs
Minimum Rate Enforcement Interval	100 ms	100 ms
DNS Authoritative Cache Performance		
DNS Queries Per Second (qps)	N/A	N/A
Network Interface		
1 GE (BASE-T)	7	6
1 GE Fiber (SFP)	0	2
10/1 GE Fiber (SFP+/SFP)	4	8 + 4 ³
25/10 GE Fiber (SFP28/SFP+)	2	0
40 GE Fiber (QSFP+)	0	0
100/40 GE Fiber (QSFP28/QSFP+)	0	0
400 GE Fiber (QSFP-DD)	0	0
Management Ports	Ethernet mgmt. port, RJ-45 console port	
Hardware Specifications		
Processor	Intel communications processor 20-core ⁵	Intel Xeon 8-core
Memory (ECC RAM)	32 GB	16 GB
Storage	SSD	SSD
Hardware Acceleration	Software	Software
Dimensions (inches)	1.75 (H) x 17.5 (W) x 17(D)	1.75 (H) x 17.5 (W) x 18(D)
Rack Units (mountable)	1U	1U
Unit Weight	12 lbs	18 lbs
Power Supply (DC option available)	Dual 300W RPS	Dual 750W 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
Heat in BTU/Hour (typical/max) ²	383 / 434	516 / 700
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
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
Mitigation Performance			
Throughput (software scrubbing) ¹	40 Gbps	100 Gbps	270 Gbps
Hardware Blocking	800 Gbps	800 Gbps	1 Tbps
Packets Rate (pps) ¹	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
DNS Authoritative Cache Performance			
DNS Queries Per Second (qps)	N/A	N/A	N/A
Network Interface			
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		
Hardware Specifications			
Processor	Intel Xeon 36-core ⁵		
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) ²	680W / 770W		
Heat in BTU/Hour (typical/max) ²	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 ⁶ , RCM, MTCTE ⁷ , ANATEL ⁸ RoHS		
Standard Warranty	90-day hardware and software		

A10 Defend DDoS Mitigator Physical Appliance (cont.)

DDoS Mitigator	Thunder 7655S	Thunder 8665S
Mitigation Performance		
Throughput (software scrubbing) ^{*1}	380 Gbps	550 Gbps
Hardware Blocking	1.2 Tbps	4.8 Tbps
Packets Rate (pps) ^{*1}	100 Million	120 Million
Software-based - SYN Authentication (pps)	100 Million	110 Million
Hardware-based - Anomaly Flood Blocking (pps)	500 Million	820 Million
Maximum Concurrent Sessions (asymmetric deployment)	256 Million	350 Million
Average Latency	40 μs	40 μs
Minimum Rate Enforcement Interval	100 ms	100 ms
DNS Authoritative Cache Performance		
DNS Queries Per Second (qps)	N/A	N/A
Network Interface		
1 GE (BASE-T)	0	0
1 GE Fiber (SFP)	0	0
10/1 GE Fiber (SFP+/SFP)	0	0
25/10 GE Fiber (SFP28/SFP+)	0	0
40 GE Fiber (QSFP+)	0	0
100/40 GE Fiber (QSFP28/QSFP+)	16	0
400 GE Fiber (QSFP-DD)	0	12
Management Ports	Ethernet mgmt. port, RJ-45 console port	2 x Ethernet mgmt. port, RJ-45 console port
Hardware Specifications		
Processor	2 x Intel Xeon 28-core	2 x Intel Xeon 36-core
Memory (ECC RAM)	384 GB	512 GB
Storage	SSD	SSD
Hardware Acceleration	2 x FTA-5, SPE	3 x FTA-6, SPE
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	44.2 lbs	44.9 lbs
Power Supply (DC option available)	Dual 1500W RPS	Dual 2500W RPS
	80 Plus Platinum efficiency, 100-240 VAC, 50-60 Hz	
Power Consumption (typical/max) ^{*2}	1,121W / 1,300W	1,491W / 1,720W
Heat in BTU/Hour (typical/max) ^{*2}	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 [^] 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.

^{*1} Throughput performances are traffic-forwarding capacity and measured with legitimate traffic with DDoS protection enabled.

^{*2} With base model | ^{*3} 10Gbps speed only | ^{*4} Available in different capacity with modular license. Specifications and numbers vary based on the modular license tier

^{*5} Active CPU core counts may vary depending on the modular license | [^] 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 ^{*1}	100 Gbps ^{*1}
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

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