SPEC SHEET

Thunder CFW Physical Appliance Specifications

	Thunder 1060S CFW		Thunder 3350-E CFW	Thunder 3350 CFW
CFW Offering	CFW	CFW	CFW	CFW
Modular License	20 Gbps	35 Gbps	–	-
Firewall Performance				
Throughput	20 Gbps	35 Gbps	30 Gbps	40 Gbps
DC-FW Layer 4 CPS	400K	700K	550K	750K
Gi-FW Layer 4 CPS	300K	550K	450K	630K
Concurrent Sessions	128 Million	128 Millon	32 Million	40 Million
FW Rules*3	32K	32K	16K	32K
Secure Web Gateway Performance*1				
SSLi Throughput	2 Gbps	4 Gbps	3 Gbps	3 Gbps
SSLi CPS	RSA: 3K ECDHE: 1.5K	RSA: 9K ECDHE: 5K	RSA: 8K ECDHE: 4.5K	RSA: 8K ECDHE: 4.5K
SSLi Concurret Sessions	100K	100K	60K	120K
IPsec VPN Performance				
IPsec Throughput	10 Gbps	15 Gbps	10 Gbps	15 Gbps
IPsec Tunnels	10K	10K	5K	10K
IKE Gateways	10K	10K	5K	10K
Network Interfaces				
1 GE Copper	7		6	6
1 GE Fiber (SFP)	0		2	2
10/1 GE Fiber (SFP+/SFP)	4		8 + 4*2	4*2
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 active]	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	12 lbs		18 lbs	18 lbs
Power Supply (DC option available)	Dual 300W RPS 80 Plus Gold efficiency, 100 - 240 VAC, 50 – 60 Hz		Dual 750W RPS 80 Plus Platinum Efficiency, 90 - 264 VAC, 50 – 60 Hz	Dual 750W RPS
Power Consumption (typical/max)	112W / 127W		151W / 205W	165W / 238W
Heat in BTU/hour (typical/max)	383 / 434		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, ICES, CE, UKCA, CB, VCCI, BSMI, RCM, MTCTE^, ANATEL | 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
Standard Warranty	90-day hardware and software			

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Thunder CFW Physical Appliance Specifications (cont.)

	Thunder 3350S CFW	Thunder 3360S CFW		
CFW Offering	CFW	CFW-ADC	CFW-ADC	CFW-ADC
Modular License	50 Gbps	50 Gbps	100 Gbps	150 Gbps
Firewall Performance				
Throughput	50 Gbps	50 Gbps	100 Gbps	150 Gbps
DC-FW Layer 4 CPS	1.4 Million	1.3 Million	1.8 Million	2.6 Million
Gi-FW Layer 4 CPS	1.1 Million	1 Million	1.4 Million	1.8 Million
Concurrent Sessions	64 Million	224 Million	224 Millio	224 Million
FW Rules*3	64K	64K	64K	64K
Secure Web Gateway Performance*1				
SSLi Throughput	5.5 Gbps	10 Gbps	15 Gbps	20 Gbps
SSLi CPS	RSA: 20K ECDHE: 10K	RSA: 20K ECDHE: 10K	RSA: 30K ECDHE: 25K	RSA: 50K ECDHE: 40K
SSLi Concurret Sessions	300K	500K	500K	500K
IPsec VPN Performance				
IPsec Throughput	24 Gbps	-*9	-*9	-*9
IPsec Tunnels	20K	-*9	-*9	-*9
IKE Gateways	20K	-*9	-*9	-*9
Network Interfaces				
1 GE Copper	6	8		
1 GE Fiber (SFP)	2	0		
10/1 GE Fiber (SFP+/SFP)	8 + 4*2	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	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)	175W / 222W	343W / 432 W		
Heat in BTU/hour (typical/max)	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+	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 CFW Physical Appliance Specifications (cont.)

	Thunder 5960 CFW	Thunder 7460S CFW		
CFW Offering	CFW	CFW-ADC	CFW-ADC	CFW-ADC
Modular License	100/200/300 Gbps	150 Gbps	200 Gbps	250 Gbps
Firewall Performance				
Throughput	300 Gbps*10	150 Gbps	200 Gbps	250 Gbps
DC-FW Layer 4 CPS	-*9	3 Million	3.8 Million	5 Million
Gi-FW Layer 4 CPS	1.9 Million	-*9	-*9	-*9
Concurrent Sessions	256 Million	256 Million	256 Million	256 Million
FW Rules*3	128K	128K	128K	128K
Secure Web Gateway Performance*1				
SSLi Throughput	-*9	25 Gbps	35 Gbps	40 Gbps
SSLi CPS	-*9	RSA: 50K ECDHE: 40K	RSA: 65K ECDHE: 55K	RSA: 70K ECDHE: 60K
SSLi Concurret Sessions	-*9	1.4 Million	1.4 Million	1.4 Million
IPsec VPN Performance				
IPsec Throughput	-*9	50 Gbps	60 Gbps	70 Gbps
IPsec Tunnels	-*9	64K	64K	64K
IKE Gateways	-*9	64K	64K	64K
Network Interfaces				
1 GE Copper	0	0		
1 GE Fiber (SFP)	0	0		
10/1 GE Fiber (SFP+/SFP)	0	0		
25/10 GE Fiber (SFP28/SFP+)	4	24		
40 GE Fiber (QSFP+)	0	0		
100/40 GE Fiber (QSFP28/QSFP+)	4	8		
Management Ports	Ethernet mgmt. port, RJ-45 console port			
Hardware Specifications				
Processor	Intel Xeon 36-core	Intel Xeon 36-core [20-core active]	Intel Xeon 36-core [28-core active]	Intel Xeon 36-core
Memory (ECC RAM)	128 GB	256 GB [192 GB active]	256 GB [192 GB active]	256 GB [192 GB active]
Storage	SSD	SSD		
Hardware Acceleration	Software	1 x FTA-6		
TLS/SSL Security Acceleration	Hardware	Hardware		
Dimensions (inches)	1.75 (H) x 17.5 (W) x 24 (D)	1.75 (H) x 17.5 (W) x 30 (D)		
Rack Units (mountable)	1U	1U		
Unit Weight	25.1 lbs	39.75 lbs		
Power Supply (DC option available)	Dual 550W RPS	Dual 1500W RPS		
	80 Plus Platinum Efficiency, 100 - 264 VAC, 50 – 60 Hz	80 Plus Platinum Efficiency, 90 - 264 VAC, 50 – 60 Hz		
Power Consumption (typical/max)	361W / 451W	710W / 790W		
Heat in BTU/hour (typical/max)	1,232 / 1,539	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, CB, VCCI, BSMI , RCM, MTCTE | RoHS	FCC Class A, UL, CE, UKCA, CB, VCCI, KCC, BSMI, RCM, MTCTE, ANATEL | RoHS		
Standard Warranty	90-day hardware and software			

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Thunder CFW Physical Appliance Specifications (cont.)

	Thunder 7460S-MAX CFW	Thunder 7650 CFW
CFW Offering	CFW-ADC	CFW
Modular License	–	–
Firewall Performance		
Throughput	270 Gbps	370 Gbps
DC-FW Layer 4 CPS	6.5 Million	-*9
Gi-FW Layer 4 CPS	-*9	8 Million
Concurrent Sessions	256 Million	768 Million*8
FW Rules*3	128K	128K
Secure Web Gateway Performance*1		
SSLi Throughput	45 Gbps	-*9
SSLi CPS	RSA: 100K ECDHE: 90K	-*9
SSLi Concurret Sessions	1.7 Million	-*9
IPsec VPN Performance		
IPsec Throughput	100 Gbps	-*9
IPsec Tunnels	64K	-*9
IKE Gateways	100K	-*9
Network Interfaces		
25/10 GE Fiber (SFP28/SFP+)	24	0
100/40 GE Fiber (QSFP28/QSFP+)	8	16
Management Ports	Ethernet mgmt. port, RJ-45 console port	Ethernet mgmt. port, RJ-45 console port
Hardware Specifications		
Processor	Intel Xeon 52-core	2 x Intel Xeon 24-core
Memory (ECC RAM)	256 GB	192 GB
Storage	SSD	SSD
Hardware Acceleration	Software	2 x FTA-5
TLS/SSL Security Acceleration	Hardware	N/A
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	39.75 lbs	41.5 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)	710W / 790W	864W / 1,091W
Heat in BTU/hour (typical/max)	2,423 / 2,696	2,949 / 3,722
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, ANATEL | RoHS	FCC Class A, UL, CE, UKCA, CB, VCCI, KCC, BSMI, RCM, MTCTE^ | 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 Tested in single appliance SSLi deployment with maximum SSL option. Cipher "TLS_RSA_WITH_AES_256_CBC_SHA" with RSA 2K keys are used for RSA cases, "TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA256" with EC P-256 and RSA 2K keys are used for PFS case. | *2 10Gbps speed only | *3 Based on FW rules with single IP (or subnet) entries. Rule count may vary depending on rule complexity. | *8 Doubled the capacity from ACOS 5.2.1-P7/ 6.0.1 onward | *9 Not supported on these models | *10 Maximum throughput varies based on the modular license associated with | ^ Certification in process | + FIPS model must be purchased

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Thunder CFW SPE Physical Appliance Specifications

	Thunder 7465 CFW[*7]		
CFW Offering	CFW-CGN	CFW-CGN	CFW-CGN
Modular License	100/150 Gbps	200 Gbps	270 Gbps
Firewall Performance			
Throughput	150 Gbps[*6]	200 Gbps	270 Gbps
DC-FW Layer 4 CPS	-[*7]	-[*7]	-[*7]
Gi-FW Layer 4 CPS	2.5 Million	3.2 Million	5.5 Million
Concurrent Sessions	256 Million	256 Million	256 Million
FW Rules[*3]	128K	128K	128K
Secure Web Gateway Performance[*1]			
SSLi Throughput	-[*7]		
SSLi CPS	-[*7]		
SSLi Concurrent Sessions	-[*7]		
IPsec VPN Performance			
IPsec Throughput	-[*7]		
IPsec Tunnels	-[*7]		
IKE Gateways	-[*7]		
Network Interfaces			
10/1 GE Fiber (SFP+/SFP)	0		
25/10 GE Fiber (SFP28/SFP+)	24		
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 [20-core active]	Intel Xeon 36-core [28-core active]	Intel Xeon 36-core
Memory (ECC RAM)	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	38.5 lbs		
Power Supply (DC option available)	Dual 1500W RPS		
	80 Plus Platinum efficiency, 90 - 264 VAC, 50 – 60 Hz		
Power Consumption (typical/max)	680W / 770W		
Heat in BTU/hour (typical/max)	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, RCM, MTCTE, ANATEL | RoHS		
Standard Warranty	90-day hardware and software		

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Thunder CFW SPE Physical Appliance Specifications (cont.)

	Thunder 7655S CFW	Thunder 8665S CFW*7
CFW Offering	CFW	CFW
Modular License	–	–
Firewall Performance		
Throughput	370 Gbps	550 Gbps
DC-FW Layer 4 CPS	9.5 Million	-*7
Gi-FW Layer 4 CPS	8 Million	8.5 million
Concurrent Sessions	768 Million*4	800 million
FW Rules*3	128K	128K
Secure Web Gateway Performance*1		
SSLi Throughput	72 Gbps	-*7
SSLi CPS	RSA: 100K ECDHE: 70K	-*7
SSLi Concurrent Sessions	4 Million	-*7
IPsec VPN Performance		
IPsec Throughput	100 Gbps	-*7
IPsec Tunnels	100K	-*7
IKE Gateways	100K	-*7
Network Interfaces		
100/40 GE Fiber (QSFP28/QSFP+)	16	0
400 GE Fiber (QSFP-DD)	0	12
Management Ports	Ethernet mgmt. port, RJ-45 console port, Lights out management	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
TLS/SSL Security Acceleration	Hardware	N/A
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*2
	80 Plus Platinum efficiency, 90 - 264 VAC, 50 – 60 Hz	80 Plus Platinum efficiency, 100 - 277 VAC, 50 – 60 Hz
Power Consumption (typical/max)	1,121W / 1,300W	1,491W / 1,720W
Heat in BTU/hour (typical/max)	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, GS, CB, VCCI, KCC, BSMI, RCM | RoHS, FIPS 140-2+	FCC Class A, UL, ICES, 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 Tested in single appliance SSLi deployment with maximum SSL option. Cipher "TLS_RSA_WITH_AES_128_CBC_SHA" with RSA 2K keys are used. | *2 With 100/110V power, both PSUs must be installed and powered on. | *3 Based on FW rules with single IP (or subnet) entries. Rule count may vary depending on rule complexity. | *4 Doubled the capacity from ACOS 5.2.1-P7/ 6.0.1 onward. | *5 Not supported on non-S models | *6 Maximum throughput varies based on the modular license associated with | *7 Thunder 7465 and 8665S currently support CFW-CGN (CGN and Gi-FW) use cases. | ^ Certification in process | + FIPS model must be purchased

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Thunder CFW Software Appliance Specifications

vThunder CFW		
Supported Hypervisors	VMware ESXi (VMXNET3, SR-IOV, PCI Passthrough), KVM QEMU (VirtIO, OvS with DPDK, SR-IOV, PCI Passthrough)	
Hardware Requirements	See installation guide	
Licenses*3	**CFW-ADC model:** • 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	**CFW-CGN model:** • Bandwidth license: Lab, 200 Mbps, 1 Gbps, 4 Gbps, 8 Gbps, 10 Gbps*1, 20 Gbps*1|*2, 50 Gbps*1|*2, 100 Gbps*2 • FlexPool license
Standard Warranty	90-day software	

*1 SR-IOV | *2 PCI Passthrough | *3 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.

Thunder CFW 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
Standard Warranty	90-day software

* Carrier-class firewall along with CGNAT and data-center firewall with ADC are the common use cases. SSL Insight (SWG) and IPsec are not adequate use cases.

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Part Number: A10-DS-15114-EN-23 November 2026