SPEC SHEET

Thunder CGN Physical Appliance Specifications

	Thunder 1060S CGN			Thunder 3350-E CGN	Thunder 3350 CGN
Modular License	10 Gbps	25 Gbps	35 Gbps	-	-
Performance					
Throughput	10 Gbps	25 Gbps	35 Gbps	30 Gbps	40 Gbps
Full TCP Connections per Second	300K	600K	600K	500K	900K
Concurrent Sessions	32 Million	96 Million	96 Million	64 Million	96 Million
Network Interfaces					
1 GE Copper		7		6	6
1 GE Fiber (SFP)		0		2	2
10/1 GE Fiber (SFP+/SFP)		4		8 + 4*4	4*4
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 communications processor 20-core	Intel Xeon 8-core	Intel Xeon 8-core
Memory (ECC RAM)	32 GB [24 GB active]	32 GB	32 GB	16 GB	32 GB
Storage	SSD			SSD	SSD
Hardware Acceleration	Software			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, 90 - 264 VAC, 50 – 60 Hz	
Power Consumption (typical/max)*1	112W / 127W			151W / 205W	165W / 238W
Heat in BTU/Hour (typical/max)*1	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 CGN Physical Appliance (cont.)

	Thunder 3350S CGN	Thunder 3360S CGN		
Modular License	50 Gbps	50 Gbps	100 Gbps	150 Gbps
Performance				
Throughput	50 Gbps	50 Gbps	100 Gbps	150 Gbps
Full TCP Connections per Second	1.5 Million	1.2 Million	1.6 Million	2 Million
Concurrent Sessions	128 Million	256 Million	256 Million	256 Million
Network Interfaces				
1 GE Copper	6	8		
1 GE Fiber (SFP)	2	0		
10/1 GE Fiber (SFP+/SFP)	8 + 4*4	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		
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 80 Plus Platinum efficiency, 90 - 264 VAC, 50 – 60 Hz	Dual 1300W RPS 80 Plus Platinum Efficiency, 100 - 240 VAC, 50 – 60 Hz		
Power Consumption (typical/max)*1	175W / 222W	343W / 432 W		
Heat in BTU/Hour (typical/max)*1	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*3	FCC Class A, UL^, ICES, CE, UKCA, CB^, VCCI, KCC^, BSMI^, RCM, MTCTE^, ANATEL^		
Standard Warranty	90-day hardware and software			

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Thunder CGN Physical Appliance (cont.)

	Thunder 5960 CGN	Thunder 7650 CGN
Modular License	100/200/300 Gbps	-
Performance		
Throughput	300 Gbps*5	370 Gbps
Full TCP Connections per Second	2.3 Million	8 Million
Concurrent Sessions	256 Million	384 Million
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	0
40 GE Fiber (QSFP+)	0	0
100/40 GE Fiber (QSFP28/QSFP+)	4	16
Management Ports	Ethernet mgmt. port, RJ-45 console port	Ethernet mgmt. port, RJ-45 console port, Lights out management
Hardware Specifications		
Processor	Intel Xeon 36-core	2 x Intel Xeon 24-core
Memory (ECC RAM)	128 GB	192 GB
Storage	SSD	SSD
Hardware Acceleration	Software	2 x FTA-5
Dimensions (inches)	1.75 (H) x 17 (W) x 24 (D)	2.625 (H) x 17.5 (W) x 30 (D)
Rack Units (mountable)	1U	1.5U
Unit Weight	25.1 lbs	41.5 lbs
Power Supply (DC option available)	Dual 550W RPS 80 Plus Platinum efficiency, 100 - 264 VAC, 50 – 60 Hz	Dual 1500W RPS 80 Plus Platinum efficiency, 90 - 264 VAC, 50 – 60 Hz
Power Consumption (typical/max)*1	361W / 451W	864W / 1,091W
Heat in BTU/Hour (typical/max)*1	1,232 / 1,539	2,949 / 3,722
Cooling Fan (front-to-back airflow)	Hot swap smart 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^ | 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.

All CGN products are also available in CFW license. For firewall and hierarchical traffic control use cases, CFW-CGN product line is required.

*1 With base model. Number varies by hardware options (e.g. SSL cards) | *2 Maximum throughput varies based on the modular license associated with | *3 FIPS model must be purchased | *4 10 Gbps speed only | *5 Maximum throughput varies based on the modular license associated with | ^ Certification in process

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Thunder CGN SPE Physical Appliance Specifications

	Thunder 7465 CGN		
Modular License	100/150 Gbps	200 Gbps	270 Gbps
Performance			
Throughput	150 Gbps*3	200 Gbps	270 Gbps
Full TCP Connections per Second	2.8 Million	3.4 Million	5.7 Million
Concurrent Sessions	256 Million	256 Million	256 Million
Selective Dynamic Filter Rate [PPS]*	200 Million	200 Million	200 Million
Selective Dynamic Filter Hardware Entries (IPv4/ IPv6)	256K / 128K	256K / 128K	256K / 128K
Network Interfaces			
10/1 GE Fiber (SFP+/SFP)	0		
25/10 GE Fiber (SFP28/SFP+)	24		
100/40 GE Fiber (QSFP28/QSFP+)	8		
400/100/40 GE Fiber (QSFP-DD/QSFP28/QSFP+)	0		
Management Ports	Ethernet mgmt. port, RJ-45 console port		
Hardware Specifications			
Processor (Intel Xeon)	36-core [20-core active]	36-core [28-core active]	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		
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, BSMIˆ, RCM, MTCTEˆ, ANATELˆ | RoHS		
Standard Warranty	90-day hardware and software		

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Thunder CGN SPE Physical Appliance Specifications (cont.)

	Thunder 7655S CGN	Thunder 8665S CGN
Modular License	-	-
Performance		
Throughput	370 Gbps	550 Gbps
Full TCP Connections per Second	8 Million	8.5 Million
Concurrent Sessions	384 Million*2	800 Million
Selective Dynamic Filter Rate [PPS]^	500 Million	740 Million
Selective Dynamic Filter Hardware Entries (IPv4/IPv6)	512K / 256K	256K / 128K
Network Interfaces		
10/1 GE Fiber (SFP+/SFP)	0	0
25/10 GE Fiber (SFP28/SFP+)	0	0
100/40 GE Fiber (QSFP28/QSFP+)	16	0
400/100/40 GE Fiber (QSFP-DD/QSFP28/QSFP+)	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 (Intel Xeon)	2 x 28-core	2 x 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 80 Plus Platinum efficiency, 90 - 264 VAC, 50 – 60 Hz	Dual 2500W RPS 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, CB, VCCI, BSMI, RCM | RoHS, FIPS 140-2*1	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.

^ Packets per second. Hardware-based selective dynamic filtering feature is available on Thunder CGN SPE family | * With base model | + Certification in process
*1 FIPS model must be purchased | *2 Capacity can be increased (doubled) from ACOS 5.2.1-P7/ 6.0.1 onward | *3 Maximum throughput varies based on the modular license associated with

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Thunder CGN Software Appliance Specifications

vThunder CGN	
Supported Hypervisors	VMware ESXi (VMXNET3, SR-IOV, DirectPath I/O), KVM QEMU (VirtIO, OvS with DPDK, SR-IOV, PCI Passthrough)
Hardware Requirements	See installation guide
Licenses*3	30-day trial license 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

Thunder CGN 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) , 60 Gbps (24 cores) and 100 Gbps (40 cores) FlexPool (Up to 100 Gbps per Thunder CGN)
Standard Warranty	90-day software

Thunder CGN Container	
Image Format	Open Container Initiative (OCI) compliant
Operating System	RedHat OpenShift Container Platform (OCP) (Version 4.16)
System Requirements	• Minimum 4 vCPU and 16 GB 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

*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. | *4 Licenses are tied to the maximum number of cores that can be allocated to ACOS

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