



## THUNDER CGN APPLIANCE SPECIFICATIONS

PERFORMANCE	THUNDER 840 CGN	THUNDER 940 CGN	THUNDER 1030S CGN	THUNDER 1040 CGN	THUNDER 3030S CGN
Throughput	5 Gbps	10 Gbps	10 Gbps	20 Gbps	30 Gbps
Setups Per Second	350K	400K	800K	800K	1.1 Million
Full TCP Connections Per Second	120K	120K	300K	300K	437K
Concurrent Sessions	16 Million	16 Million	32 Million	32 Million	64 Million
Application Delivery Partitions	32	32	32	32	64
<b>NETWORK INTERFACE</b>					
1 GE Copper	5	5	6	5	6
1 GE Fiber (SFP)	0	0	2	0	2
1/10 GE Fiber (SFP+)	2	4	2	4	4
Management Ports	Ethernet Mgmt port, RJ-45 console port		1 x Ethernet Mgmt port, 1 x RJ-45 console port, 1 x Lights Out Management		
<b>HARDWARE SPECIFICATIONS</b>					
Processor	Intel Communication Processor	Intel Communication Processor	Intel Xeon 4-core	Intel Communication Processor	Intel Xeon 4-core
Memory (ECC RAM)	8 GB	8 GB	8 GB	8 GB	16 GB
Storage	SSD	SSD	SSD	SSD	SSD
Hardware Acceleration	Software	Software	Software	Software	Software
Dimensions (Inches)	1.75 (H) x 17 (W) x 12 (D)	1.75 (H) x 17.5 (W) x 17.25 (D)	1.75 (H) x 17.5 (W) x 17.45 (D)	1.75 (H) x 17.5 (W) x 17.25 (D)	1.75 (H) x 17.5 (W) x 17.45 (D)
Rack Units (Mountable)	1U	1U	1U	1U	1U
Unit Weight	8.8 lbs	14 lbs 16lbs (RPS)	18.0 lbs 20.1 lbs (RPS)	15 lbs 17 lbs (RPS)	20.1 lbs
Power Supply (DC option available)	Single 150W (AC only) 100 - 240 VAC, 50-60Hz	Single 750W <sup>2</sup>	Single 600W <sup>*</sup>	Single 750W <sup>2</sup>	Dual 600W RPS 80 Plus Platinum efficiency, 100 - 240 VAC, 50 - 60 Hz
Power Consumption (Typical/Max) <sup>*1</sup>	57W / 75W	60W / 80W	98W / 108W	80W / 110W	131W / 139W
Heat in BTU/Hour (Typical/Max) <sup>*1</sup>	195 / 256	205 / 273	334 / 369	273 / 376	447 / 474
Cooling Fan	Single Fixed Fan	Removable Fans	Hot Swap Smart Fans	Removable Fans	Hot Swap Smart Fans
Operating Ranges	Temperature 0° - 40° C   Humidity 5% - 95%				
Regulatory Certifications	FCC Class A, UL, CE, TUV, CB, VCCI, CCC, BSMI, RCM   RoHS	FCC Class A, UL, CE, GS, CB, VCCI, CCC, BSMI <sup>1</sup> , RCM <sup>1</sup>   RoHS	FCC Class A, UL, CE, TUV, CB, VCCI, CCC, KCC, BSMI, RCM, FAC   RoHS, FIPS 140-2 <sup>3</sup>	FCC Class A, UL, CE, GS, CB, VCCI, CCC, BSMI <sup>1</sup> , RCM <sup>1</sup>   RoHS	FCC Class A, UL, CE, TUV, CB, VCCI, CCC, KCC, BSMI, RCM, EAC, FAC   RoHS, FIPS 140-2 <sup>3</sup>
Standard Warranty	90-Day Hardware and Software				

## Thunder CGN Physical Appliance (Cont.)

<b>PERFORMANCE</b>	<b>THUNDER 3040</b> CGN	<b>THUNDER 3230</b> CGN	<b>THUNDER 3430</b> CGN	<b>THUNDER 4430</b> CGN	<b>THUNDER 4440</b> CGN
Throughput	30 Gbps	30 Gbps	42 Gbps	38 Gbps	80 Gbps
Setups Per Second	1.1 Million	1.8 Million	2.1 Million	2.1 Million	2.5 Million
Full TCP Connections Per Second	437K	891K	1 Million	1 Million	1.1 Million
Concurrent Sessions	64 Million	64 Million	128 Million	128 Million	128 Million
Application Delivery Partitions	64	64	127	127	127
<b>NETWORK INTERFACE</b>					
1 GE Copper	6	0	0	0	0
1 GE Fiber (SFP)	2	4	4	0	0
1/10 GE Fiber (SFP+)	4	4	4	16	24
40 GE Fiber (QSFP+)	0	0	0	4	4
Management Ports	1 x Ethernet Mgmt port, 1 x RJ-45 console port, 1 x Lights Out Management				
<b>HARDWARE SPECIFICATIONS</b>					
Processor	Intel Xeon 4-core	Intel Xeon 4-core	Intel Xeon 6-core	Intel Xeon 6-core	Intel Xeon 6-core
Memory (ECC RAM)	16 GB	16 GB	32 GB	32 GB	32 GB
Storage	SSD	SSD	SSD	SSD	SSD
Hardware Acceleration	Software	FTA-4	FTA-4	FTA-3	2 x FTA-4
Dimensions (Inches)	1.75 (H) x 17.5 (W) x 17.45 (D)	1.75 (H) x 17.5 (W) x 17.15 (D)	1.75 (H) x 17.5 (W) x 17.15 (D)	1.75 (H) x 17.5 (W) x 24.6 (D)	1.75 (H) x 17.5 (W) x 30 (D)
Rack Units (Mountable)	1U	1U	1U	1U	1U
Unit Weight	20.1 lbs	23 lbs	23 lbs	25.2 lbs	32.5 lbs
Power Supply (DC option available)	Dual 600W RPS	Dual 600W RPS	Dual 600W RPS	Dual 600W RPS	Dual 1100W RPS
	80 Plus Platinum efficiency, 100 - 240 VAC, 50 - 60 Hz				
Power Consumption (Typical/Max) <sup>1</sup>	180W / 240W	190W / 240W	210W / 260W	266W / 319W	360W / 445W
Heat in BTU/Hour (Typical/Max) <sup>1</sup>	615 / 819	648 / 819	717 / 887	908 / 1,088	1,229 / 1,519
Cooling Fan	Hot Swap Smart Fans				
Operating Ranges	Temperature 0° - 40° C   Humidity 5% - 95%				
Regulatory Certifications	FCC Class A, UL, CE, GS, CB, VCCI, CCC, KCC, BSMI, RCM   RoHS	FCC Class A, UL, CE, GS, CB, VCCI, CCC, KCC, BSMI, RCM, NEBS   RoHS	FCC Class A, UL, CE, GS, CB, VCCI, CCC, KCC, BSMI, RCM, NEBS   RoHS	FCC Class A, UL, CE, TUV, CB, VCCI, CCC, KCC, BSMI, RCM   RoHS, FIPS 140-2 <sup>1</sup> *3	FCC Class A, UL, CE, GS, CB, VCCI, CCC, KCC, BSMI, RCM   RoHS, FIPS 140-2 <sup>1</sup> *3
Standard Warranty	90-Day Hardware and Software				

## Thunder CGN Physical Appliance (Cont.)

<b>PERFORMANCE</b>	<b>THUNDER 5330</b> CGN	<b>THUNDER 5430-11</b> CGN	<b>THUNDER 5440</b> CGN	<b>THUNDER 5630</b> CGN	<b>THUNDER 5840</b> CGN
Throughput	78 Gbps	77 Gbps	100 Gbps	76 Gbps	115 Gbps
Setups Per Second	3.1 Million	3.1 Million	5 Million	5.9 Million	7 Million
Full TCP Connections Per Second	1.2 Million	1.6 Million	2.2 Million	3 Million	3 Million
Concurrent Sessions	128 Million	256 Million	256 Million	256 Million	256 Million
Application Delivery Partitions	127	1,023	1,023	1,023	1,023
<b>NETWORK INTERFACE</b>					
1 GE Fiber (SFP)	0	0	0	4	0
1/10 GE Fiber (SFP+)	8	16	24	24	24
40 GE Fiber (QSFP+)	0	4	4	4	4
Management Ports	1 x Ethernet Management Port, 1 x RJ-45 Console Port				
<b>HARDWARE SPECIFICATIONS</b>					
Processor	Intel Xeon 10-core	Intel Xeon 10-core	Intel Xeon 12-core	2 x Intel Xeon 8-core	Intel Xeon 18-core
Memory (ECC RAM)	32 GB	64 GB	64 GB	128 GB	64 GB
Storage	SSD	SSD	SSD	SSD	SSD
Hardware Acceleration	FTA-4	2 x FTA-3	2 x FTA-4	4 x FTA-2	2 x FTA-4
Dimensions (Inches)	1.75 (H) x 17.5 (W) x 17.15 (D)	1.75 (H) x 17.5 (W) x 24.6 (D)	1.75 (H) x 17.5 (W) x 30 (D)	5.3(H)x 16.9(W)x 28(D)	1.75(H)x 17.5(W)x 30(D)
Rack Units (Mountable)	1U	1U	1U	3U	1U
Unit Weight	23 lbs	25.6 lbs	32.5 lbs	72 lbs	32.5 lbs
Power Supply (DC option available)	Dual 600W RPS	Dual 600W RPS	Dual 1100W RPS	2+2 1100W RPS	Dual 1100W RPS
	80 Plus Platinum efficiency, 100 - 240 VAC, 50 – 60 Hz				
Power Consumption (Typical/Max) <sup>1</sup>	210W / 260W	288W / 345W	360W / 445W	780W / 890W	375W / 470W
Heat in BTU/Hour (Typical/Max) <sup>1</sup>	717 / 887	983 / 1,178	1,229 / 1,519	2,661 / 3,037	1,280 / 1,604
Cooling Fan	Hot Swap Smart Fans				
Operating Ranges	Temperature 0° - 40° C   Humidity 5% - 95%				
Regulatory Certifications	FCC Class A, UL, CE, GS, CB, VCCI, CCC, BSMI, RCM, NEBS   RoHS	FCC Class A, UL, CE, TUV, CB, VCCI, CCC, KCC, BSMI, RCM   RoHS	FCC Class A, UL, CE, GS, CB, VCCI, CCC, BSMI, RCM   RoHS	FCC Class A, UL, CE, TUV, CB, VCCI, KCC*, EAC, FAC   RoHS, FIPS 140-2 <sup>1*</sup>	FCC Class A, UL, CE, GS, CB, VCCI, CCC, BSMI, RCM   RoHS
Standard Warranty	90-Day Hardware and Software				

## Thunder CGN Physical Appliance (Cont.)

	THUNDER <b>5840-11</b> CGN	THUNDER <b>6430</b> CGN	THUNDER <b>6440</b> CGN	THUNDER <b>6630</b> CGN	THUNDER <b>7440</b> CGN	THUNDER <b>7440-11</b> CGN
<b>PERFORMANCE</b>						
Throughput	115 Gbps	150 Gbps	160 Gbps	155 Gbps	220 Gbps	220 Gbps
Setups Per Second	7 Million	5.2 Million	6.5 Million	7.5 Million	9 Million	9 Million
Full TCP Connections Per Second	3 Million	2.6 Million	2.8 Million	3.2 Million	5 Million	5 Million
Concurrent Sessions	256 Million	256 Million	256 Million	256 Million	256 Million	256 Million
Application Delivery Partitions	1,023	1,023	1,023	1,023	1,023	1,023
<b>NETWORK INTERFACE</b>						
1/10 GE Fiber (SFP+)	48	16	48	12	48	48
40 GE Fiber (QSFP+)	0	4	4	0	4	0
100 GE Fiber	4 (QSFP28)	0	0	4 (CXP)	0	4 (QSFP28)
Management Ports	1 x Ethernet Management Port, 1 x RJ-45 Console Port					
<b>HARDWARE SPECIFICATIONS</b>						
Processor	Intel Xeon 18-core	2 x Intel Xeon 8-core	2 x Intel Xeon 10-core	2 x Intel Xeon 12-core	2 x Intel Xeon 18-core	2 x Intel Xeon 18-core
Memory (ECC RAM)	64 GB	128 GB	128 GB	128 GB	128 GB	128 GB
Storage	SSD	SSD	SSD	SSD	SSD	SSD
Hardware Acceleration	2x FTA-4	4 x FTA-3	3 x FTA-4	4 x FTA-3	3 x FTA-4	3 x FTA-4
Dimensions (Inches)	1.75 (H) x 17.5 (W) x 30 (D)	1.75(H)x17.5(W) x30(D)	1.75 (H)x 17.5 (W) x30 (D)	5.3 (H) x 16.9 (W) x 28 (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	3U	1U	1U
Unit Weight	34.3 lbs	39 lbs	36 lbs	74.5 lbs	36 lbs	37 lbs
Power Supply (DC option available)	Dual 1500W RPS	Dual 1100W RPS	Dual 1100W RPS	2+2 1100W RPS	Dual 1100W RPS	Dual 1500W RPS
	80 Plus Platinum efficiency, 100 - 240 VAC, 50 – 60 Hz					
Power Consumption (Typical/Max) <sup>*1</sup>	550W / 760W	590W / 680W	480W / 550W	995W / 1,150W	690W / 820W	820W / 950W
Heat in BTU/Hour (Typical/Max) <sup>*1</sup>	1,877 / 2,594	2,013 / 2,320	1,638 / 1,877	3,395 / 3,924	2,355 / 2,798	2,798 / 3,242
Cooling Fan	Hot Swap Smart Fans					
Operating Ranges	Temperature 0° - 40° C   Humidity 5% - 95%					
Regulatory Certifications	FCC Class A, UL, CE, GS, CB, VCCI, CCC*, BSMI, RCM   RoHS <sup>^</sup>	FCC Class A, UL, CE, TUV, CB, VCCI, CCC, KCC, BSMI, RCM, EAC, FAC, NEBS   RoHS, FIPS 140-2 <sup>*3</sup>	FCC Class A, UL, CE, GS, CB, VCCI, CCC, BSMI, RCM   RoHS	FCC Class A, UL, CE, TUV, CB, VCCI, KCC*, EAC, FAC   RoHS, FIPS 140-2 <sup>*3</sup>	FCC Class A, UL, CE, GS, CB, VCCI, CCC, KCC, BSMI, RCM   RoHS, FIPS 140-2 <sup>*3</sup>	FCC Class A, UL, CE, GS, CB, VCCI, CCC*, KCC*, BSMI, RCM   RoHS <sup>^</sup>
Standard Warranty	90-Day Hardware and Software					

The specifications, 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> With base model. Number varies by SSL model | <sup>\*2</sup> Optional RPS | <sup>\*3</sup> FIPS model must be purchased | <sup>^</sup> Certification in process

# THUNDER CGN SPE APPLIANCE SPECIFICATIONS

	THUNDER <b>4435</b> CGN	THUNDER <b>5435</b> CGN	THUNDER <b>6435</b> CGN	THUNDER <b>6635</b> CGN	THUNDER <b>14045</b> CGN SINGLE MODULE	THUNDER <b>14045</b> CGN DUAL MODULE
<b>PERFORMANCE</b>						
Throughput	38 Gbps	77 Gbps	155 Gbps	155 Gbps	150 Gbps	300 Gbps
Setups Per Second	3 Million	3.5 Million	7.5 Million	7.5 Million	10 Million	20 Million
Full TCP Connections Per Second	1.4 Million	1.6 Million	3.2 Million	3.2 Million	4 Million	8 Million
Concurrent Sessions	128 Million	256 Million	256 Million	256 Million	256 Million	512 Million
Selective Dynamic Filter Rate [PPS] <sup>†</sup>	55 Million	112 Million	224 Million	224 Million	224 Million	450 Million
Selective Dynamic Filter Hardware Entries (IPv4/IPv6)	256K / 128K	256K / 128K	256K / 128K	256K / 128K	256K / 128K	512K / 256K
Application Delivery Partitions	1,023	1,023	1,023	1,023	1,023 / 4,094 <sup>‡</sup>	1,023
<b>NETWORK INTERFACE</b>						
1/10 GE Fiber (SFP+)	16	16	16	12	0	0
40 GE Fiber (QSFP+)	0	4	4	0	4	4
100 GE Fiber	0	0	0	4 (CXP)	4 (CFP or QSFP28)	4 (CFP or QSFP28)
Management Ports	1 x Ethernet Management Port, 1 x RJ-45 Console Port*, 1 x Lights Out Management					
<b>HARDWARE SPECIFICATIONS</b>						
Processor (Intel Xeon)	10-core	10-core	2 x 12-core	2 x 12-core	2 x 18-core	4 x 18-core
Memory (ECC RAM)	64 GB	64 GB	128 GB	128 GB	256 GB	512 GB
Storage	SSD	SSD	SSD	SSD	SSD	SSD
Hardware Acceleration	FTA-3, SPE	2 x FTA-3, SPE	4 x FTA-3, SPE	4 x FTA-3, SPE	4 x FTA-3, SPE	8 x FTA-3, SPE
Dimensions (Inches)	1.75 (H) x 17.5 (W) x 30 (D)	1.75 (H) x 17.5 (W) x 30 (D)	1.75 (H) x 17.5 (W) x 30 (D)	5.3 (H) x 16.9 (W) x 28 (D)	5.3 (H) x 16.9 (W) x 28 (D)	5.3 (H) x 16.9 (W) x 28 (D)
Rack Units (Mountable)	1U	1U	1U	3U	3U	3U
Unit Weight	34.5 lbs	35.5 lbs	39 lbs	74.5 lbs	80 lbs	102 lbs
Power Supply (DC option available)	Dual 1100W RPS	Dual 1100W RPS	Dual 1100W RPS	2+2 1100W RPS	2+2 1100W RPS	2+2 1100W RPS
	80 Plus Platinum efficiency, 100 - 240 VAC, 50 – 60 Hz					
Power Consumption (Typical/Max)*	350W / 420W	400W / 480W	620W / 710W	995W / 1,150W	1,000W / 1,200W	1,700W / 2,000W
Heat in BTU/Hour (Typical/Max)*	1,195 / 1,433	1,365 / 1,638	2,116 / 2,423	3,395 / 3,924	3,412 / 4,095	5,801 / 6,825
Cooling Fan	Hot Swap Smart Fans					
Operating Ranges	Temperature 0° - 40° C   Humidity 5% - 95%					
Regulatory Certifications	FCC Class A, UL, CE, TUV, CB, VCCI, CCC, MSIP, BSMI, RCM, EAC, NEBS   RoHS	FCC Class A, UL, CE, TUV, CB, VCCI, CCC, BSMI, RCM, NEBS   RoHS	FCC Class A, UL, CE, TUV, CB, VCCI, CCC, BSMI, RCM, NEBS   RoHS	FCC Class A, UL, CE, TUV, CB, VCCI, EAC, FAC   RoHS	FCC Class A, UL, CE, GS, CB, VCCI, CQC, KCC, BSMI, RCM   RoHS	FCC Class A, UL, CE, GS, CB, VCCI, CQC, KCC, BSMI, RCM   RoHS
Standard Warranty	90-Day Hardware and Software					

The specifications, 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>†</sup> Packets per second. Hardware-based selective dynamic filtering feature is available on Thunder CGN SPE family.

\* With base model. Number varies by SSL model | <sup>‡</sup> Thunder 14045 comes with a splitter cable for console to provide access to both modules. |

<sup>‡</sup> Requires ACOS 4.1.100 code version, see release notes.

## THUNDER HVA APPLIANCE SPECIFICATIONS

	THUNDER 3030S HVA	THUNDER 3530S HVA
<b>PERFORMANCE</b>		
Throughput*	35 Gbps	100 Gbps
vThunder Instances (Included)	8	40
<b>NETWORK INTERFACE</b>		
1 GE Copper	6	4
1 GE Fiber (SFP)	2	2
1/10 GE Fiber (SFP+)	4	12
Management Ports	1 x Ethernet Management Port, 1 x RJ-45 Console Port, 1 x Lights Out Management	
<b>HARDWARE SPECIFICATIONS</b>		
Processor (Intel Xeon)	4-core	2 x 10-core
Memory (ECC RAM)	32 GB	128 GB
Storage	SSD	SSD
Hardware Acceleration	Software	Software
Dimensions (Inches)	1.75 (H) x 17.5 (W) x 17.45 (D)	1.75 (H) x 17.25 (W) x 22.8 (D)
Rack Units (Mountable)	1U	1U
Unit Weight	20.1 lbs	29.6 lbs
Power Supply (DC option available)	Dual 600W RPS 80 Plus Platinum efficiency, 100 - 240 VAC, 50 – 60 Hz	Dual 750W RPS 80 Plus Gold efficiency, 100 - 240 VAC, 50 – 60 Hz
Power Consumption (Typical/Max)	131W / 139W	380W / 476W
Heat in BTU/Hour (Typical/Max)	447 / 474	1,297 / 1,624
Cooling Fan	Hot Swap Smart Fans	
Operating Ranges	Temperature 0° - 40° C   Humidity 5% - 95%	
Regulatory Certifications	FCC Class A <sup>*</sup> , UL <sup>*</sup> , CE <sup>*</sup> , TUV <sup>*</sup> , CB <sup>*</sup> , VCCI <sup>*</sup> , China CCC <sup>*</sup> , BSMI <sup>*</sup> , RCM <sup>*</sup> , EAC <sup>*</sup> , FAC <sup>*</sup>	
Standard Warranty	90-Day Hardware and Software	

The specifications, 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.

\* Performance varies by number of virtual machines running and hardware resources assigned | <sup>\*</sup> Certification in process

## vTHUNDER CGN VIRTUAL APPLIANCE

Supported Hypervisors	VMware ESXi 5.0 or higher (VMXNET3, SR-IOV, PCI Passthrough) KVM QEMU 1.0 or higher (VirtIO, OvS with DPDK, SR-IOV, PCI Passthrough) Microsoft Hyper-V on Windows Server 2008 R2 or Higher
Hardware Requirements	See Installation Guide
Standard Warranty	90-Day Software

Bandwidth Licenses	Lab	200 Mbps	1 Gbps	4 Gbps	8 Gbps	10 Gbps	20 Gbps	40 Gbps	100 Gbps
VMware ESXi	●	●	●	●	●	●	● <sup>*1</sup>	● <sup>*1</sup>	● <sup>*2</sup>
KVM	●	●	●	●	●	●	● <sup>*1</sup>	● <sup>*1</sup>	● <sup>*2</sup>
Microsoft Hyper-V	●	●	●	●	● <sup>+</sup>				

<sup>\*1</sup> SR-IOV

<sup>\*2</sup> PCI Passthrough

<sup>+</sup> 8 Gbps license not recommended for Microsoft Hyper-V

## THUNDER CGN FOR BARE METAL

System Requirements	<b>Minimum Hardware Requirement</b> <ul style="list-style-type: none"> <li>• Intel x86-based CPUs with minimum of 4 cores</li> <li>• 16 GB RAM</li> <li>• 80 GB of free disk space</li> <li>• 2 Ethernet interfaces (3 or more are recommended)</li> <li>• Intel Network Adapters and drivers including igb, ixgbe, i40e and more</li> </ul>
Reference Platforms	Cisco UCS, Dell PowerEdge, Ericsson Hyperscale Datacenter System (HDS), HP ProLiant and more
Bandwidth Licenses*	10 Gbps (4 cores), 20 Gbps (8 cores), 40 Gbps (14 cores) and 60 Gbps (24 cores)
Standard Warranty	90-Day Software

\*Licenses are tied with maximum number of cores which can be allocated to ACOS

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