

### Thunder CFW Physical Appliance Specifications

	Thunder 1060S CFW		Thunder 3350-E CFW
Modular License	10 Gbps	25 Gbps	-
<b>Firewall Performance</b>			
Throughput	10 Gbps	25 Gbps	30 Gbps
Layer 4 CPS	300K	700K	550K
Concurrent Sessions	32 Million	96 Million	32 Million
FW Rules <sup>6</sup>	16K	32K	16K
<b>Secure Web Gateway Performance<sup>1 2</sup></b>			
SSLi Throughput	1 Gbps	2 Gbps	3 Gbps
SSLi CPS	RSA: 2K ECDHE: 1.2K	RSA: 6K ECDHE: 4K	RSA: 8K ECDHE: 4.5K
<b>IPsec VPN Performance<sup>2 7</sup></b>			
IPsec Throughput	10 Gbps	15 Gbps	10 Gbps
IPsec Tunnels	5K	10K	5K
IKE Gateways	5K	10K	5K
<b>Network Interfaces</b>			
1 GE Copper	7	7	6
1 GE Fiber (SFP)	0	0	2
10/1 GE Fiber (SFP+/SFP)	4	4	8 + 4 <sup>5</sup>
25/10 GE Fiber (SFP28/SFP+)	2	2	0
40 GE Fiber (QSFP+)	0	0	0
100/40 GE Fiber (QSFP28/QSFP+)	0	0	0
Management Ports	Ethernet mgmt. port, RJ-45 console port		
<b>Hardware Specifications</b>			
Processor	Intel communications processor 20-core [9-core active]	Intel communications processor 20-core	Intel Xeon 8-core
Memory (ECC RAM)	32 GB [24 GB active]	32 GB	16 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 17(D)	1.75 (H) x 17.5 (W) x 18(D)
Rack Units (mountable)	1U	1U	1U
Unit Weight	12 lbs	12 lbs	18 lbs
Power Supply (DC option available)	Dual 300W RPS	Dual 300W RPS	Dual 750W RPS
	80 Plus Platinum Efficiency, 100 - 240 VAC, 50 - 60 Hz		
Power Consumption (typical/max) <sup>13</sup>	112W / 127W	112W / 127W	151W / 205W
Heat in BTU/hour (typical/max) <sup>13</sup>	383 / 434	383 / 434	516 / 700
Cooling Fan (front-to-back airflow)	Removable fans	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 <sup>+</sup>   RoHS	FCC Class A, UL, ICES, CE, UKCA, CB, VCCI, BSMI, RCM, MTCTE <sup>+</sup>   RoHS	FCC Class A, UL, CE, UKCA, CB, VCCI, BSMI, RCM, MTCTE <sup>+</sup>   RoHS
Standard Warranty	90-day hardware and software		

## Thunder CFW Physical Appliance Specifications (cont.)

	Thunder 3350 CFW	Thunder 3350S CFW	Thunder 4440 CFW	Thunder 5440 CFW
Modular License	-	50 Gbps	-	-
<b>Firewall Performance</b>				
Throughput	40 Gbps	50 Gbps	70 Gbps	90 Gbps
Layer 4 CPS	750K	1.4 Million	1.5 Million	2 Million
Concurrent Sessions	40 Million	64 Million	64 Million	128 Million
FW Rules <sup>6</sup>	32K	64K	32K	64K
<b>Secure Web Gateway Performance<sup>11 12</sup></b>				
SSLi Throughput	3 Gbps	5.5 Gbps	N/A <sup>11</sup>	N/A <sup>11</sup>
SSLi CPS	RSA: 8K ECDHE: 4.5K	RSA: 20K ECDHE: 10K	N/A <sup>11</sup>	N/A <sup>11</sup>
<b>IPsec VPN Performance<sup>2 17</sup></b>				
IPsec Throughput	15 Gbps	24 Gbps	N/A <sup>11</sup>	N/A <sup>11</sup>
IPsec Tunnels	10K	20K	N/A <sup>11</sup>	N/A <sup>11</sup>
IKE Gateways	10K	20K	N/A <sup>11</sup>	N/A <sup>11</sup>
<b>Network Interfaces</b>				
1 GE Copper	6	6	0	0
1 GE Fiber (SFP)	2	2	0	0
10/1 GE Fiber (SFP+/SFP)	4 <sup>5</sup>	8 + 4 <sup>5</sup>	24	24
25/10 GE Fiber (SFP28/SFP+)	4	0	0	0
40 GE Fiber (QSFP+)	4	0	4	4
100/40 GE Fiber (QSFP28/QSFP+)	0	0	0	0
Management Ports	Ethernet mgmt. port, RJ-45 console port		Ethernet mgmt. port, RJ-45 console port, Lights out management	
<b>Hardware Specifications</b>				
Processor	Intel Xeon 8-core	Intel Xeon 14-core	Intel Xeon 6-core	Intel Xeon 12-core
Memory (ECC RAM)	32 GB	64 GB	32 GB	64 GB
Storage	SSD	SSD	SSD	SSD
Hardware Acceleration	Software	Software	2 x FTA-4	2 x FTA-4
TLS/SSL Security Acceleration	Hardware	Hardware	Software <sup>11</sup>	Software <sup>11</sup>
Dimensions (inches)	1.75 (H) x 17.5 (W) x 18(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	18 lbs	18 lbs	32.5 lbs	32.5 lbs
Power Supply (DC option available)	Dual 750W RPS	Dual 750W RPS	Dual 1100W RPS	Dual 1100W RPS
	80 Plus Platinum Efficiency, 100 - 240 VAC, 50 - 60 Hz			
Power Consumption (typical/max) <sup>3</sup>	165W / 238W	175W / 222W	360W / 445W	360W / 445W
Heat in BTU/hour (typical/max) <sup>3</sup>	564 / 831	598 / 758	1,229 / 1,519	1,229 / 1,519
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 <sup>7</sup>   RoHS	FCC Class A, UL, CE, UKCA, CB, VCCI, KCC, BSMI, RCM, MTCTE <sup>7</sup>   RoHS, FIPS 140-2 <sup>8</sup>	FCC Class A, UL, CE, UKCA, CB, VCCI, KCC, BSMI, RCM   RoHS	FCC Class A, UL, CE, UKCA, CB, VCCI, KCC, BSMI, RCM, MTCTE <sup>7</sup>   RoHS, FIPS 140-2 <sup>8</sup>
Standard Warranty	90-day hardware and software			

## Thunder CFW Physical Appliance Specifications (cont.)

	Thunder 5840 CFW	Thunder 5840-11 CFW	Thunder 5960 CFW	Thunder 6440 CFW
Modular License	-	-	100/200/300 Gbps	-
<b>Firewall Performance</b>				
Throughput	100 Gbps	100 Gbps	300 Gbps <sup>10</sup>	150 Gbps
Layer 4 CPS	3 Million	3 Million	1.9 Million	3 Million
Concurrent Sessions	128 Million	128 Million	256 Million	256 Million
FW Rules <sup>6</sup>	64K	64K / 128K <sup>2</sup>	128K	128K
<b>Secure Web Gateway Performance<sup>11,12</sup></b>				
SSLi Throughput	N/A <sup>11</sup>	N/A <sup>11</sup>	- <sup>9</sup>	N/A <sup>11</sup>
SSLi CPS	N/A <sup>11</sup>	N/A <sup>11</sup>	- <sup>9</sup>	N/A <sup>11</sup>
<b>IPsec VPN Performance<sup>2,17</sup></b>				
IPsec Throughput	N/A <sup>11</sup>	N/A <sup>11</sup>	- <sup>9</sup>	N/A <sup>11</sup>
IPsec Tunnels	N/A <sup>11</sup>	N/A <sup>11</sup>	- <sup>9</sup>	N/A <sup>11</sup>
IKE Gateways	N/A <sup>11</sup>	N/A <sup>11</sup>	- <sup>9</sup>	N/A <sup>11</sup>
<b>Network Interfaces</b>				
1 GE Copper	0	0	0	0
1 GE Fiber (SFP)	0	0	0	0
10/1 GE Fiber (SFP+/SFP)	24	48	0	48
25/10 GE Fiber (SFP28/SFP+)	0	0	4	0
40 GE Fiber (QSFP+)	4	0	0	4
100/40 GE Fiber (QSFP28/QSFP+)	0	4	4	0
Management Ports	Ethernet mgmt. port, RJ-45 console port, Lights out management		Ethernet mgmt. port, RJ-45 console port	Ethernet mgmt. port, RJ-45 console port, Lights out management
<b>Hardware Specifications</b>				
Processor	Intel Xeon 18-core	Intel Xeon 18-core	Intel Xeon 36-core	2 x Intel Xeon 10-core
Memory (ECC RAM)	64 GB	64 GB / 128 GB <sup>2</sup>	128 GB	128 GB
Storage	SSD	SSD	SSD	SSD
Hardware Acceleration	2 x FTA-4	2 x FTA-4	Software	3 x FTA-4
TLS/SSL Security Acceleration	Software <sup>11</sup>	Software <sup>11</sup>	Hardware	Software <sup>11</sup>
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 (W) x 24 (D)	1.75 (H) x 17.5 (W) x 30 (D)
Rack Units (mountable)	1U	1U	1U	1U
Unit Weight	32.5 lbs	34.3 lbs	25.1 lbs	36 lbs
Power Supply (DC option available)	Dual 1100W RPS	Dual 1500W RPS	Dual 550W RPS	Dual 1100W RPS
	80 Plus Platinum Efficiency, 100 - 240 VAC, 50 - 60 Hz			
Power Consumption (typical/max) <sup>13</sup>	375W / 470W	550W / 760W	361W / 451W	480W / 550W
Heat in BTU/hour (typical/max) <sup>13</sup>	1,280 / 1,604	1,877 / 2,594	1,232 / 1,539	1,638 / 1,877
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   RoHS, FIPS 140-2 <sup>1</sup>	FCC Class A, UL, CE, UKCA, CB, VCCI, BSMI, RCM, MTCTE <sup>1</sup>   RoHS	FCC Class A, UL, CE, UKCA, CB, VCCI, BSMI, RCM, MTCTE <sup>1</sup>   RoHS	FCC Class A, UL, CE, UKCA, CB, VCCI, KCC, BSMI, RCM, MTCTE <sup>1</sup>   RoHS
Standard Warranty	90-day hardware and software			

## Thunder CFW Physical Appliance Specifications (cont.)

	Thunder 7440 CFW	Thunder 7440-11 CFW	Thunder 7650 CFW
Modular License	-	-	-
<b>Firewall Performance</b>			
Throughput	220 Gbps	220 Gbps	370 Gbps
Layer 4 CPS	5 Million	5 Million	8 Million
Concurrent Sessions	256 Million	256 Million	768 Million <sup>8</sup>
FW Rules <sup>6</sup>	128K	128K	128K
<b>Secure Web Gateway Performance<sup>11 12</sup></b>			
SSLi Throughput	N/A <sup>11</sup>	N/A <sup>11</sup>	- <sup>9</sup>
SSLi CPS	N/A <sup>11</sup>	N/A <sup>11</sup>	- <sup>9</sup>
<b>IPsec VPN Performance<sup>2 17</sup></b>			
IPsec Throughput	N/A <sup>11</sup>	N/A <sup>11</sup>	- <sup>9</sup>
IPsec Tunnels	N/A <sup>11</sup>	N/A <sup>11</sup>	- <sup>9</sup>
IKE Gateways	N/A <sup>11</sup>	N/A <sup>11</sup>	- <sup>9</sup>
<b>Network Interfaces</b>			
1 GE Copper	0	0	0
1 GE Fiber (SFP)	0	0	0
10/1 GE Fiber (SFP+/SFP)	48	48	0
25/10 GE Fiber (SFP28/SFP+)	0	0	0
40 GE Fiber (QSFP+)	4	0	0
100/40 GE Fiber (QSFP28/QSFP+)	0	4	16
Management Ports	Ethernet mgmt. port, RJ-45 console port, Lights out management		
<b>Hardware Specifications</b>			
Processor	2 x Intel Xeon 18-core	2 x Intel Xeon 18-core	2 x Intel Xeon 24-core
Memory (ECC RAM)	128 GB	128 GB	192 GB
Storage	SSD	SSD	SSD
Hardware Acceleration	3 x FTA-4	3 x FTA-4	2 x FTA-5
TLS/SSL Security Acceleration	Software <sup>11</sup>	Software <sup>11</sup>	Hardware
Dimensions (inches)	1.75 (H) x 17.5 (W) x 30 (D)	1.75 (H) x 17.5 (W) x 30 (D)	2.625 (H) x 17.5 (W) x 30 (D)
Rack Units (mountable)	1U	1U	1.5U
Unit Weight	35.7 lbs	35.7 lbs	41.5 lbs
Power Supply (DC option available)	Dual 1100W RPS	Dual 1500W RPS	Dual 1500W RPS
	80 Plus Platinum Efficiency, 100 - 240 VAC, 50 - 60 Hz		
Power Consumption (typical/max) <sup>13</sup>	690W / 820W	784W / 950W	864W / 1,091W
Heat in BTU/hour (typical/max) <sup>13</sup>	2,355 / 2,798	2,676 / 3,242	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   RoHS	FCC Class A, UL, CE, UKCA, CB, VCCI, BSMI, RCM, MTCTE*   RoHS, FIPS 140-2*	FCC Class A, UL, CE, UKCA, CB, VCCI, KCC, BSMI, RCM, MTCTE*   RoHS
Standard Warranty	90-day hardware and software		

# Thunder CFW Physical Appliance Specifications (cont.)

	Thunder 7460S <sub>CFW</sub>			Thunder 7460S-MAX <sub>CFW</sub>
Modular License	150 Gbps	200 Gbps	250 Gbps	-
<b>Firewall Performance</b>				
Throughput	150 Gbps	200 Gbps	250 Gbps	270 Gbps
Layer 4 CPS	3 Million	3.8 Million	5 Million	6.5 Million
Concurrent Sessions	256 Million	256 Million	256 Million	256 Million
FW Rules <sup>*6</sup>	128K	128K	128K	128K
<b>Secure Web Gateway Performance<sup>*11,*2</sup></b>				
SSLi Throughput	25 Gbps	35 Gbps	40 Gbps	45 Gbps
SSLi CPS	RSA: 50K ECDHE: 40K	RSA: 65K ECDHE: 55K	RSA: 70K ECDHE: 60K	RSA: 100K ECDHE: 90K
<b>IPsec VPN Performance<sup>*7</sup></b>				
IPsec Throughput		- <sup>*9</sup>		- <sup>*9</sup>
IPsec Tunnels		- <sup>*9</sup>		- <sup>*9</sup>
IKE Gateways		- <sup>*9</sup>		- <sup>*9</sup>
<b>Network Interfaces</b>				
1 GE Copper	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			
Management Ports	Ethernet mgmt. port, RJ-45 console port			
<b>Hardware Specifications</b>				
Processor	Intel Xeon 36-core [20-core active]	Intel Xeon 36-core [28-core active]	Intel Xeon 36-core	Intel Xeon 52-core
Memory (ECC RAM)	256 GB [192 GB active]	256 GB [192 GB active]	256 GB	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	39.75 lbs			
Power Supply (DC option available)	Dual 1500W RPS 80 Plus Platinum Efficiency, 100 - 240 VAC, 50 - 60 Hz			
Power Consumption (typical/max) <sup>*3</sup>	710W / 790W			
Heat in BTU/hour (typical/max) <sup>*3</sup>	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 <sup>^</sup> , CE, UKCA, CB, VCCI, KCC <sup>^</sup> , BSMI <sup>^</sup> , RCM, MTCTE <sup>^</sup> , ANATEL <sup>^</sup>   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 With maximum SSL | \*3 With base model | \*4 Optional RPS available | \*5 10Gbps speed only | \*6 Based on FW rules with single IP (or subnet) entries. Rule count may vary depending on rule complexity. | \*7 IPsec are validated and supported in ACOS 6.x or before | \*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 | \*11 Currently, only the base model is available; the S-model with hardware TLS/SSL acceleration has reached its end of sales | ^ Certification in process | + FIPS model must be purchased

# Thunder CFW SPE Physical Appliance Specifications

	Thunder 5845 <sup>CFW</sup>	Thunder 7445 <sup>CFW</sup>	Thunder 7655S <sup>CFW</sup>	Thunder 8665S <sup>CFW</sup> <sup>7</sup>
Modular License	-	75/100/150/200/220 Gbps	-	-
<b>Firewall Performance</b>				
Throughput	100 Gbps	220 Gbps <sup>6</sup>	370 Gbps	550 Gbps
Layer 4 CPS	3 Million	5 Million	8 Million	8.5 Million
Concurrent Sessions	128 Million	256 Million	768 Million <sup>4</sup>	800 Million
FW Rules <sup>6</sup>	64K / 128K <sup>2</sup>	128K	128K	128K
<b>Secure Web Gateway Performance<sup>1,2</sup></b>				
SSLi Throughput	- <sup>5</sup>	- <sup>5</sup>	72 Gbps	- <sup>6</sup>
SSLi CPS	- <sup>5</sup>	- <sup>5</sup>	RSA: 100K ECDHE: 70K	- <sup>6</sup>
<b>IPsec VPN Performance<sup>2</sup></b>				
IPsec Throughput	- <sup>5</sup>	- <sup>5</sup>	100 Gbps	- <sup>6</sup>
IPsec Tunnels	- <sup>5</sup>	- <sup>5</sup>	100K	- <sup>6</sup>
IKE Gateways	- <sup>5</sup>	- <sup>5</sup>	100K	- <sup>6</sup>
<b>Network Interfaces</b>				
10/1 GE Fiber (SFP+/SFP)	48	48	0	0
25/10 GE Fiber (SFP28/SFP+)	0	0	0	0
100/40 GE Fiber (QSFP28/QSFP+)	4	4	16	0
400 GE Fiber (QSFP-DD)	0	0	0	12
Management Ports	Ethernet mgmt. port, RJ-45 console port, Lights out management			2 x Ethernet mgmt. port, RJ-45 console port
<b>Hardware Specifications</b>				
Processor	Intel Xeon 18-core	2 x Intel Xeon 18-core	2 x Intel Xeon 28-core	2 x Intel Xeon 36-core
Memory (ECC RAM)	64 GB / 128GB <sup>2</sup>	128 GB	384 GB	512 GB
Storage	SSD	SSD	SSD	SSD
Hardware Acceleration	2 x FTA-4, SPE	3 x FTA-4, SPE	2 x FTA-5, SPE	3 x FTA-6, SPE
TLS/SSL Security Acceleration	Software	Software	Hardware	N/A
Dimensions (inches)	1.75 (H) x 17.5 (W) x 30 (D)	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	1U	1.5U	1.5U
Unit Weight	34.3 lbs	35.7 lbs	44.2 lbs	44.9 lbs
Power Supply (DC option available)	Dual 1500W RPS	Dual 1500W RPS	Dual 1500W RPS	Dual 2500W RPS
	80 Plus Platinum Efficiency, 100 - 240 VAC, 50 - 60 Hz			
Power Consumption (typical/max) <sup>3,5</sup>	585W / 921W	784W / 1,078W	1,121W / 1,300W	1,491W / 1,720W
Heat in BTU/hour (typical/max) <sup>3,5</sup>	1,997 / 3,143	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   RoHS	FCC Class A, UL, CE, UKCA, CB, VCCI, BSMI, RCM   RoHS	FCC Class A, UL, CE, UKCA, CB, VCCI, KCC, BSMI, RCM   RoHS, FIPS 140-2 <sup>1</sup>	FCC Class A, UL, ICES, CE, UKCA, CB, VCCI, RCM   RoHS
Standard Warranty	90-day hardware and software			

# Thunder CFW SPE Physical Appliance Specifications (cont.)

	Thunder 7465 CFW <sup>7</sup>		
Modular License	100/150 Gbps	200 Gbps	270 Gbps
<b>Firewall Performance</b>			
Throughput	150 Gbps <sup>6</sup>	200 Gbps	270 Gbps
Layer 4 CPS	2.5 Million	3.2 Million	5.5 Million
Concurrent Sessions	256 Million	256 Million	256 Million
FW Rules <sup>6</sup>	128K	128K	128K
<b>Secure Web Gateway Performance<sup>1 2</sup></b>			
SSLi Throughput		- <sup>7</sup>	
SSLi CPS		- <sup>7</sup>	
<b>IPsec VPN Performance<sup>2</sup></b>			
IPsec Throughput		- <sup>7</sup>	
IPsec Tunnels		- <sup>7</sup>	
IKE Gateways		- <sup>7</sup>	
<b>Network Interfaces</b>			
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		
<b>Hardware Specifications</b>			
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	1x 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, 100 - 240 VAC, 50 - 60 Hz		
Power Consumption (typical/max) <sup>3</sup>	680W / 770W		
Heat in BTU/hour (typical/max) <sup>3</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>4</sup> , RCM, MTCTE <sup>4</sup> , ANATEL <sup>4</sup>   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 maximum SSL | \*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

# 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 <sup>*3</sup>	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p><b>CFW-ADC model:</b></p> <ul style="list-style-type: none"> <li>Bandwidth license: Lab, 25 Mbps, 100 Mbps, 200 Mbps, 1 Gbps, 3 Gbps, 5 Gbps, 10 Gbps<sup>*1</sup>, 20 Gbps<sup>*1/2</sup>, 40 Gbps<sup>*1/2</sup>, 100 Gbps<sup>*2</sup></li> <li>FlexPool license</li> </ul> </div> <div style="width: 45%;"> <p><b>CFW-CGN model:</b></p> <ul style="list-style-type: none"> <li>Bandwidth license: Lab, 200 Mbps, 1 Gbps, 4 Gbps, 8 Gbps, 10 Gbps<sup>*1</sup>, 20 Gbps<sup>*1/2</sup>, 50 Gbps<sup>*1/2</sup>, 100 Gbps<sup>*2</sup></li> <li>FlexPool license</li> </ul> </div> </div>
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	<ul style="list-style-type: none"> <li>Minimum 4 vCPU and 16GB memory</li> <li>One or more data interfaces</li> <li>SR-IOV support using NVIDIA or Intel NICs</li> </ul>
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.

About A10

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