DATA SHEET

Thunder CFW

Consolidated Firewall, CGN, ADC, VPN and Secure Web Gateway

A10 Thunder® Convergent Firewall (CFW) is a high performance consolidated security solution for service providers, cloud providers and large enterprises that includes integrated application delivery and security solutions in a single, standalone product.

High-performance Security

Modern service providers, web giants, enterprises and cloud platform providers aim to defend global networks, ensure high availability and low latency, secure infrastructure, encrypt data and protect customers.

A high-performance, all-inclusive security product, A10 Thunder Convergent Firewall (CFW) is a cost-effective approach for strengthening security postures and protecting network perimeters without the need for disparate point products.

A10 Thunder CFW lineup includes CFW-CGN and CFW-ADC. CFW-CGN features a carrier-class firewall for mobile infrastructure security and carrier-grade networking to protect and support mobile operators and other service providers. CFW-ADC features data center firewall, secure DNS and secure web gateway for data center and enterprise security use cases.

Thunder CFW is built on A10's market-proven ACOS® platform that delivers scalable form factors and cost structures that make economic sense. Offering unmatched performance and scalability with the industry's best data center footprint for integrated security and application networking needs, Thunder CFW reduces an organization's total cost of ownership (TCO).

Platforms



Physical Appliance



Virtual Appliance



Container

Management



A10 Control
Centralized Analytics and Management



FlexPool
Capacity Pooling License

Learn More

A10Networks.com/cfw

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Thunder CFW

A consolidated network security platform for A10's application and network infrastructure solutions.

CFW-ADC

ADC | CGN | **SSLi** | **FW** | **IPSec**

Data Center Firewall

Consolidate firewall and ADC and protect your data center assets from the inside out, providing better operation and management while lowering TCO.

Secure Web Gateway

Eliminate SSL blind spot in corporate defenses, restrict access to undesirable websites, and identify malicious traffic using SSL Insight technology, URL filtering and application-based control in a multi-layered security approach.

Secure and Scalable DNS

For better user's internet experience, build reliable DNS infrastructure using secure DNS load balancing along with optimization capabilities such as recursive DNS and DNS cache.

CFW-CGN

ADC | **CGN** | SSLi | **FW** | **IPSec**

Carrier-class Gi/SGi Firewall

Protect subscribers and shield mobile core infrastructure from cyberattacks at the Gi/SGi and RAN to ensure uninterrupted operations. Consolidating security functions and CGNAT helps efficient operation and enables optimized performance.

Fairness Traffic Control Using DPI

Ensure subscribers satisfaction and experience by controlling per-subscriber traffic rate. Hierarchical rate-limiting provides granular traffic control and fair bandwidth usage based on applications, category, subscription level and so on.

Certifications

ICSA labs CERTIFIED FIREWALL - CORPORATE

ICSA labs CERTIFIED IPSEC - IKEV2 BASIC

SEE ALL CERTIFICATIONS

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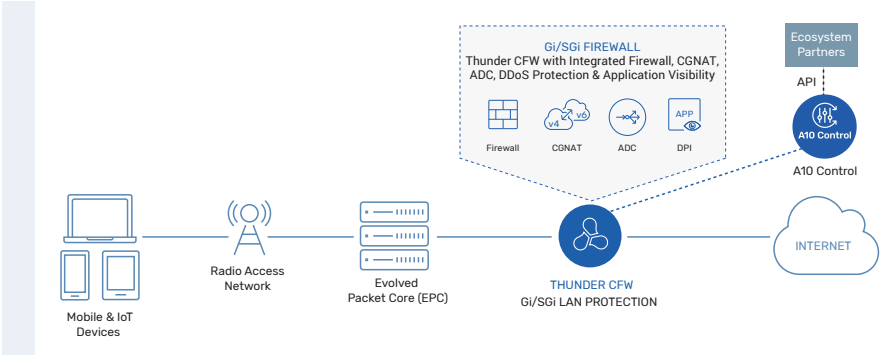
Features and Benefits

Designed for enterprises, service providers and mobile network operators, A10 Thunder CFW offers the performance and versatility needed to safeguard applications, users and infrastructure.

Carrier-class Firewall

Comprehensive Mobile Core Protection

Granular control over network resources allows mobile network operators to block network and DDoS attacks that may arise from a variety of intrusion points at the Gi/SGi, GTP/roaming and RAN in 3G-4G, 5G SA, 5G NSA and MEC architectures. Thunder CFW offers Gi LAN services consolidation to combine L4–L7 functions, including CGNAT, stateful firewall, and application-aware firewall and visibility to integrate greater efficiencies on the Gi LAN. It protects subscribers and shields 3G/4G data and control plane services, including the Gateway GPRS Support Node (GGSN) and Packet Gateway (PGW) in the Evolved Packet Core (EPC), from a wide array of threats. It also defends the mobile core against GTP-based attacks coming in from access networks and roaming partners to support uninterrupted operations. Thunder CFW can secure its own resources, such as NAT IP pools, to ensure that operational functions are not compromised.



A10 Gi/SGi Firewall for the GiLAN

In this scenario, a mobile network operator deploys the Gi/SGi firewall to secure communication between the EPC and the internet to protect the mobile core infrastructure. Integrated carrier-grade NAT enables carriers to manage communication with both IPv4 and IPv6 address protocols. Built-in DDoS protection safeguards the NAT IP pools to avoid service interruption. A10 Control provides centralized management and analytics.

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IPv4 Preservation and IPv6 Transition

Integrated carrier-grade networking functionality includes CGNAT to preserve investments in existing IPv4-based infrastructure and comprehensive IPv6 transition options to facilitate a smooth transition to IPv6. This ensures seamless subscriber experiences and sustainable subscriber growth. Integrated application layer gateways (ALGs) ensure that applications remain addressable and operate transparently through address translation.

Granular Visibility and Reporting

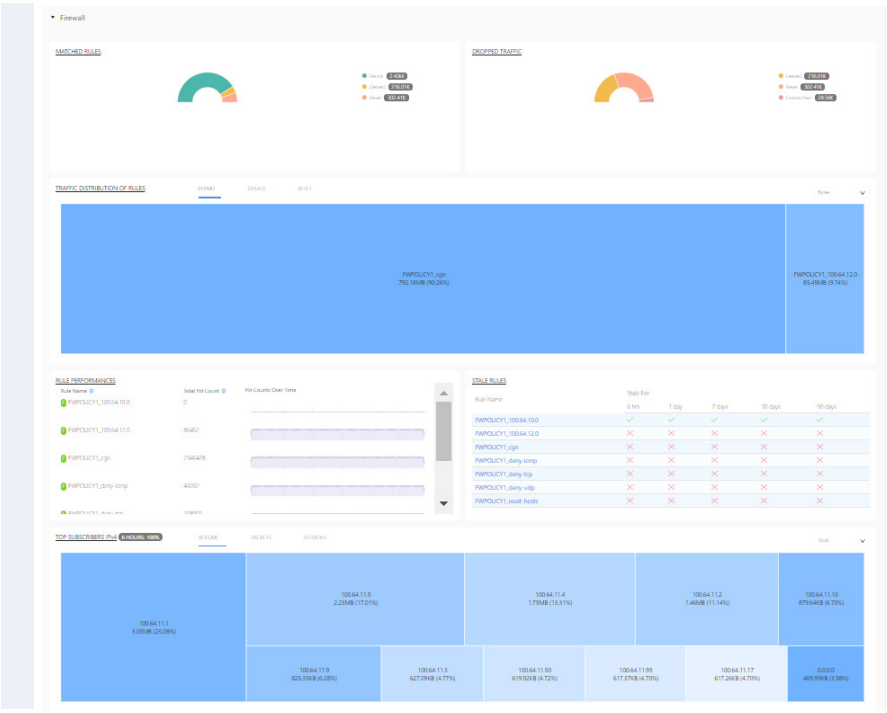
DPI-based application visibility with comprehensive subscriber awareness provides granular insights into network traffic. Understanding network and application traffic trends allows for effective network planning, deeper business intelligence, tighter security controls, enhanced law enforcement agency compliance and service monetization.

High-performance, Scalable Firewall

Thunder CFW carrier-class firewall enables mobile network operators to achieve exceptionally high firewall connection rates, throughput, and higher NAT session capacity to meet service providers' current and future traffic requirements. Simplify operational tasks and reduce CAPEX and OPEX by integrating CGNAT, stateful firewall, and DDoS protection capabilities.

Agile Management and Analytics-driven

Gain application and network services visibility with the A10 Control for Thunder CFW. Centrally configure and manage policies across services in a multi-cloud environment. Get customizable drill-down views for analysis and actionable insights for faster troubleshooting.



Agile Management and Analytics-driven Dashboard

Gain application and network services visibility with the A10 Control for Thunder CFW. Centrally configureand manage policies across services in a multi-cloud environment. Get real-time actionable insights on firewall performance, critical CGN services such as mapping distribution, NAT IP pool utilization and more, and application visibility including application distribution by category, bytes consumed by application category.

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Secure Web Gateway / SSL Insight

Decrypt Once, Inspect Multiple Times

Leverage A10's SSL Insight technology to decrypt SSL traffic and forward it to third-party security devices for inspection. Maximize uptime and increase security infrastructure capacity with integrated load balancing. Unburden firewalls and other security devices from computationally intensive SSL decryption, enabling them to detect and stop attacks.

Gain Superior Control with URL Filtering

Maximize employee productivity and reduce risks by blocking access to malicious websites, including malware, spam and phishing sources. The A10 URL Classification categorizes more than 460 million domains and 13 billion URLs into 83 categories to block undesirable sites and shield users from threats.

Block Known Web Threats

Identify and block traffic going out to and coming in from known bad IP addresses on the internet with threat intelligence feeds.

Prevent Data Exfiltration

Integrate with third-party Data Loss Prevention (DLP) solutions via the industry-standard ICAP. Send decrypted traffic to DLP servers for inspection before forwarding intercepted traffic to a client or a server.

Enforce Authentication and User-based Policies

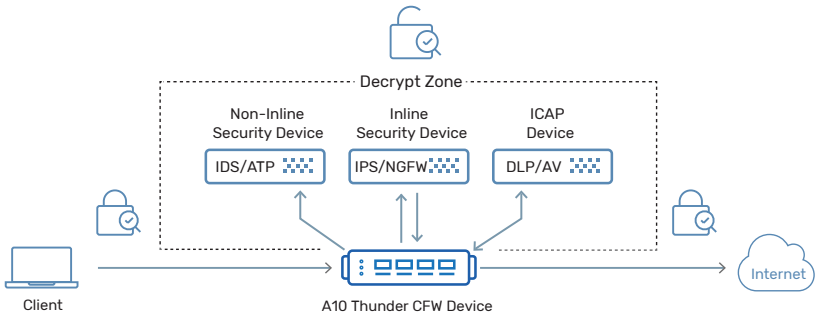
Create security policies for users, making sure no unauthorized access is allowed, with the identity and access management feature. This also enables you to define user-ID-based traffic and inspection policies to maintain granular control.

Ensure Compliance

Leverage the SWG's high-speed logging capabilities to keep track of all session activities, per-rule statistics for SIEM integration, and authenticated session logging.

Gain Superior Visibility and Control into Application Traffic

Identify and categorize traffic on the application level, allowing for more granular controls and policies to be defined, with application visibility and control. This DPI-based service provides application visibility with comprehensive user and group awareness, providing deep insights into network traffic. Understanding application traffic trends in enterprise networks allows for effective security planning and sanctioning of allowed business applications.



Secure Web Gateway Protects the Enterprise Perimeter

Deploy Thunder CFW, with integrated SSL Insight technology, to decrypt traffic for a variety of security products, including inline, non-inline (passive/TAP) and ICAP-enabled devices.

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Data Center Firewall

Achieve Unprecedented Firewall Performance

Powered by A10's Advanced Core Operating System (ACOS®), Thunder CFW provides high performance in a compact appliance, allowing organizations to stop emerging threats at scale.

The Thunder CFW data center firewall offers exceptionally high firewall connection rates — 370 Gbps of throughput — in a 1.5 rack-unit appliance that provides enough capacity to support up to 768 million concurrent sessions. Eliminate traditional performance bottlenecks while protecting your data center assets.

Secure and Simplify DNS Infrastructure

Improve security and performance of DNS infrastructure by consolidating multiple DNS security solutions such as DNS load balancing, DNS firewall (RPZ), DNS over HTTPS (DoH)/ DNS over TLS (DoT), DNSSEC and DNS caching.

Consolidate Application Delivery and Security

Eliminate single-purpose devices from data centers by consolidating security and application delivery controller (ADC) features on one platform to reduce hardware and operating costs. Optimize the delivery and security for potentially hundreds of apps in a given data center.

Protect Multi-tenant Environments

Leverage application delivery partitions (ADP) to isolate services or networks based on the data center and security need.

A10 Control also supports flexible multi-tenancy for administrator can ensure access privilege and access control for each service owners.

Thunder
8665S CFW
by the Numbers

550	8.5 M	800 M	128K
Gbps	Layer 4 CPS	Concurrent Sessions	FW Rules



12
400GE Interface

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IPsec VPN

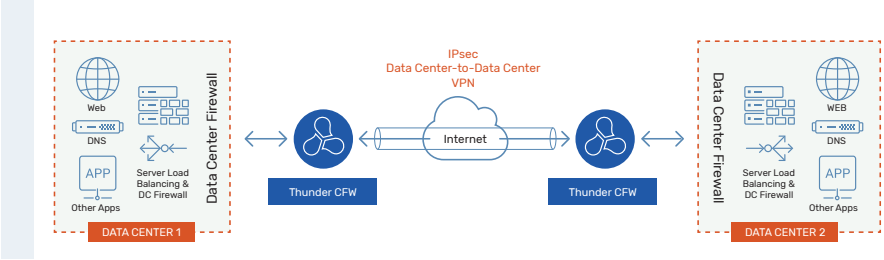
Encrypt Data at Unparalleled Speeds

Securely interconnect remote sites over the internet using high capacity and massive scale IPsec VPN. Thunder CFW features a broad array of encryption algorithms and data integrity methods for securing communications in mobile networks and/or between hybrid cloud workloads.

Select Thunder CFW platform provides hardware-based IPsec cryptographic security, supporting unprecedented IPsec throughput levels and large number of IPsec VPN tunnels.

Consolidate IPsec VPN, Firewall and Application Delivery

Thunder CFW unifies firewall and IPsec VPN capabilities on a single platform to improve agility through consolidation. Whether used to support secure interconnection between data centers, high speed VPN connections in the cloud, or secure connection between mobile network RAN nodes and core, Thunder CFW provides a comprehensive networking and security platform that reduces data center footprints and operating costs.



Data Center Firewall and IPsec VPN

By unifying IPsec VPN, firewall and application delivery controller (ADC) capabilities, organizations are able to both load-balance traffic and protect the data center, services and related applications from DDoS attacks and other threats.

Flexible Deployment Options

Thunder CFW provides industry-leading high performance as a physical, virtual or containerized solution. The physical appliance with hardware acceleration supports scalable and high-performance on-premises deployments. For NFVi and private cloud deployments, the virtual appliance works with leading hypervisors such as VMware ESXi, KVM and integrates with leading NFV-MANO solutions including Ericsson Cloud Manager, NEC Netcracker HOM, Cisco NSO and Red Hat OpenStack and more. For flexible and efficient cloud native deployments such as Docker and Kubernetes, the container option can be used.

All Thunder CFW options run on A10's ACOS software, providing feature parity, regardless of form factor, which helps simplify and consolidate operations in any deployment environment.

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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 Concurret 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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Detailed Feature List

Features may vary by appliance.

Carrier Class Firewall [CFW-CGN]

Firewall

- Stateful Layer 4 network firewall
- L7 application-aware firewall and visibility**
- L4–L7 services consolidation
- Gi/SGi firewall
- GTP firewall with granular SCTP filtering
- Application layer gateways (DNS, ESP, FTP, ICMP, PPTP, RTSP, SIP, TFTP)

Fairness Traffic Control

- Highly granular per-subscriber traffic rate control
- Hierarchical rate-limiting based-on subscribers/ application/ category etc.

DDoS Protection

- Integrated DDoS protection for NAT IP pools
- IP anomaly detection
- DDoS protection for Gi/SGi firewall

IPv4 Preservation (CGNAT)

- Carrier-grade NAT (CGN/CGNAT), Large-scale NAT (LSN), NAT444, NAT44

IPv6 Migration

- Dual-stack support, full-native IPv6 management and features
- SLB-PT (protocol translation), SLB-64 (IPv4<->IPv6, IPv6<->IPv4)
- NAT64/DNS64, NAT46, DS-Lite, 6rd, LW4o6, MAP-T, MAP-E

Visibility and Analytics with A10 Control

- CGNAT
  - Subscriber session insights
  - Session opening and closing rates
  - TopN flow consuming subscribers
  - TopN bandwidth consuming subscribers
  - Subscriber user quota alerts
  - CGN resource tracking
  - Mapping distribution per protocol and per technology
  - NAT IP pool utilization
  - Session distribution per NAT technology
- Firewall
  - Firewall rule performance and rule distribution by protocol
  - Top firewall rules by state
  - GTP traffic insights, roam-in/out view and policy violation analytics
  - Comprehensive transduction log with source/destination IP, port, protocol, application, application category, and firewall actions for better visibility and faster troubleshooting
- Application
  - Application distribution by category
  - Top destination IP by application distribution
  - Bytes consumed by application category

Secure Web Gateway [CFW-ADC]

SSL Insight

- High-performance SSL decryption and encryption as a forward proxy
- Internet content adaptation protocol (ICAP) support for data loss prevention
- Dynamic port decryption to detect and intercept SSL or TLS traffic regardless of TCP port number
- Forward proxy failsafe to bypass traffic when there is a handshake failure
- SSL Insight bypass based on hostname; bypass list scales up to 1 million server name indication (SNI) values
- Multi-bypass list support
- Decryption of HTTPS, STARTTLS, SMTP, XMPP
- Client certificate detection and optional bypass
- Untrusted certificate handling using the online certificate status protocol (OCSP)
- TLS alert logging to log flow information from SSL Insight events
- SSL session ID reuse
- Firewall load-balancing (FWLB)

URL Filtering**

- URL classification service powered by Webroot to selectively bypass trusted websites for SSL decryption
- Optional monitoring and blocking of malicious or undesirable websites

Application-aware Firewall**

- Recognition of thousands protocol signatures with identification of service types within applications
- Support custom rules that run real-time

IP Threat Intelligence**

- Prevents malicious traffic from entering your network, based on customizable risk score and tolerance

Threat Investigator**

- Rich and contextual analytics for object under investigation

Operation Modes

- Transparent forward proxy
- Explicit forward proxy
- Proxy chaining

Centralized Management and Analytics with A10 Control

- Device and configuration management across multiple sites
- Deployment wizard with guided configuration
- Centralized security policy management and enforcement
- Rich TLS/SSL traffic and decryption analytics for traffic insight, application insight, URL insight, source and destination insight and more
- Threat investigator view
- Session log drill-down
- Troubleshooting tools

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Detailed Feature List (cont.)

Data Center Firewall [CFW-ADC]

Firewall

- Stateful L4 network firewall
- Application layer gateways (DNS, ESP, FTP, ICMP, PPTP, RTSP, SIP, TFTP)

DDoS Protection

- Flood attack protection: SYN cookies, TCP/UDP/ICMP flood protection, DNS/HTTP flood protection
- Protocol attack protection: invalid packets, anomalous TCP flag combinations, packet size validation (ping of death)
- Resource attack protection: slowloris, slow POST, sockstress, fragmentation
- Rate-limiting: IP-based connection, HTTP, DNS request, DNS query, ICMP rate-limiting

Application Access Management (AAM)

- Authentication methods: HTTP Basic, NTLM over HTTP, form-based, OCSP, TDS SQL Logon and SAML
- Authentication servers: LDAP, Active Directory, RADIUS, OCSP Responder, NTLM, Kerberos, RSA Secure ID, Entrust IdentityGuard and SAML Identity Provider (IdP)
- Authentication relay: Kerberos, form-based, LDAP, WS-Federation, and Microsoft SharePoint and Outlook Web Access
- Extensive logging for audit

A10 Next-Gen WAF (powered by Fastly)**

- Comprehensive OWASP top attacks protection
- Account takeover (ATO) protection
- Advanced rate limiting
- Network learning exchange
- Virtual patching for CVEs
- Streamlined management and extensive visibility on application attacks and anomalies
- Compliance
- Explicit proxy deployment support

ADC

- Advanced L4/L7 server load-balancing
  - Full HTTP proxy, Fast HTTP, HTTP/2, FIX, SIP, RADIUS, FTP, TCP, UDP and more
  - High-performance, template-based L7 switching with header/URL/domain manipulation
  - Comprehensive L7 application persistence support
- DNS load balancing
  - Layer 4 (TCP, UDP) and Layer 7 (DNS-UDP, DNS-TCP)
- Global Server Load Balancing (GSLB)
- Comprehensive IPv4/IPv6 support
- aFleX® TCL-based scripting: deep packet inspection and transformation for customizable, application-aware switching
- HTTP acceleration: HTTP connection multiplexing (TCP connection reuse),
- RAM caching, HTTP compression
- SSL acceleration: Hardware SSL, TLS 1.2, TLS 1.3 support, Elliptic Curve Diffie-Hellman Exchange (ECDHE) and other PFS ciphers
- Post-Quantum Cryptographic (PQC) - Hybrid-KEM
- ACME client support for automating TLS certificate renewal with Let's Encrypt, Sectigo and else

DNS Security

- DNS over HTTPS (DoH), DNS over TLS (DoT)
- Recursive DNS
- DNS cache
- DNS firewall/RPZ
- DNS application firewall (DAF)
- DNSSEC

IPsec VPN

- Route-based VPN
- Policy-based VPN
- Keying methods: IKEv1, IKEv2, IKE-CP
- Authentication methods: RSA signature, pre-shared key, public key infrastructure (PKI)
- Key exchange Diffie-Hellman groups: 1, 2, 5, 14, 15, 16, 18
- Encryption algorithms: DES, 3DES, AES-128, AES-192, AES-256
- Data integrity: MD5, SHA1 and SHA-256
- OSPF, BGP and bidirectional forwarding detection (BFD) over IPsec tunnel
- IPv4 and IPv6 support
- Equal cost multipath (ECMP) support
- NAT traversal
- IPsec logging with log filter
- Certificate management protocol version 2 (CMPv2)
- Perfect forward secrecy (PFS) support
- Life bytes and time rekey
- PKI support with simple certificate enrollment protocol (SCEP), online certificate status protocol (OCSP) and certificate revocation list (CRL) distribution points

Common Features

A10 Threat Intelligence Service**

- Dynamically updated threat intelligence feed
- Millions of IP addresses that are are vulnerable and weaponized for DDoS attacks, including IoT DDoS botnets, DDoS drones, exploitable open reflectors

Scalable, High-performance Platform

- Advanced Core Operating System (ACOS)
  - Multi-core CPU support
  - Linear application scaling with scalable symmetrical multi-processing (SSMP) architecture
  - ACOS on data plane
- Linux on control plane
- IPv6 feature parity
- Flexible traffic acceleration (FTA) for scalable flow distribution, common attack mitigation
  - Hardware FTA utilizing FPGAs
- Scale-out cluster

Networking

- Integrated Layer 2/Layer 3
- Transparent mode/gateway mode
- Virtual wire interface support
- Routing — static routes, IS-IS (v4/v6), RIPv2/ng, OSPF v2/v3, BGP4+
- L2 protocols (STP, RSTP, MSTP)
- VLAN (802.1Q)
- Link aggregation (802.1AX), LACP
- Access control lists (ACLs)
- Traditional IPv4 NAT/NAPT
- IPv6 NAPT
- Jumbo frame support*
- Hardware-accelerated VXLAN*
- NVGRE

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Detailed Feature List (cont.)

Common Features (cont.)

Management

- Dedicated on-box management interface (GUI, CLI, SSH, Telnet)
- Web-based AppCentric templates (ACT) intuitive guided configuration tool
- SNMP, syslog, email alerts, NetFlow v9 and v10 (IPFIX), sFlow
- RESTful API (aXAPI)
- LDAP, TACACS+, RADIUS support
- Configurable control CPUs
- Interoperable with A10 Control for centralized management, configuration and analytics
- Plug-in available for VMware vRealize Orchestrator deployments

Virtualization

- Thunder virtual appliance for VMware vSphere ESXi and KVM
- Thunder ADC for Amazon Web Services (AWS), Microsoft Azure, Google Cloud and Oracle Cloud
- Thunder ADC for Bare Metal
- Thunder ADC for containers
- Networking acceleration (SR-IOV, DPDK) and management integration
- A10 Thunder Multi-tenant Virtual Platform (MVP)

Extensibility

- aVCS (virtual chassis system)
- Multi-tenancy with application delivery partitions (ADP) with L3-7 separation
- L3 virtualization

DevOps Tools and Integration

- Ansible modules and playbooks
- Terraform Thunder provider
- HashiCorp's Consul and Network Infrastructure Automation (NIA) integration
- Thunder Kubernetes Connector (TKC)
- Microsoft Azure ARM templates
- AWS CloudFormation templates
- OpenStack Octavia driver
- Cloud-init support for auto-configuration on
  - OpenStack
  - OCI
  - AWS
  - Azure
- Prometheus integration for visibility and analytics monitoring
- Automatic certificate renewal with Sectigo, Let's Encrypt, Venafi and more
- Thunder Observability Agent (TOA) for publishing Thunder metrics and logs to
  - AWS CloudWatch
  - Azure Application Insights / Log Analytics
  - VMware vRealize Operations (vROps) / Log Insights (vRLI)

Carrier-grade Hardware*

- Advanced hardware architecture
- Hot-swap redundant power supplies (AC and DC)
- Smart fans (hot swap)
- Solid-state drive (SSD)
- Tamper detection
- Lights out management (LOM/IPMI)
- 25GE, 40GE, 100GE and 400GE
- High-performance security processor option

Flexible Licensing

- Modular licensing for Thunder hardware* allowing "pay-as-you-grow" model and capacity upgrade
- FlexPool: portable and flexible capacity pooled licensing for both hardware and software Thunder running across on-premises and private clouds (with supported use cases)

Security and Capability Assurance Certifications*

- ICSA Labs certification
- Common Criteria EAL 2+
- FIPS 140-2 Level 2
- Joint Interoperability Test Command (JITC)
- Network Equipment Building System (NEBS) compliance

* Features and certifications may vary by appliance.
** Additional subscription or service is required.

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