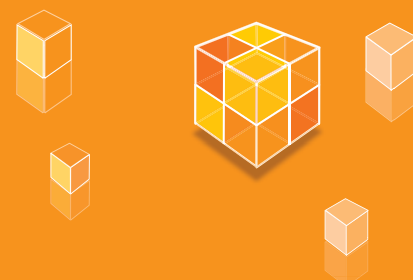


FAST360

NETWORK PROCESSOR APPLIANCE



The FAST360 product line includes Network Processor Appliances (NPA). Set at the heart of information systems, NPAs are the perfect answer to security challenges originating in constantly evolving threats, architectures and practices.

Thanks to their latest generation technology, based on Cavium Octeon multicore processors, they can deliver top-notch performance meeting increasingly exacting requirements by combining the best content analysis and applicative filtering technologies.

NPA Range



The Arkoon FAST360 products of the Network Processor Appliance range were designed to deliver unparalleled performance by protecting your network against an extensive range of threats.

Based on a latest generation processor designed especially for use in a networked environment, Network Processor Appliances ship with Arkoon "core" technology, as well as the Fast Applicative Shield Technology ("FAST") applicative filtering engine, and feature the best content-analysis technologies for network functions. In other words, all the ingredients are to make this product the Next-Generation Firewall for the years to come.

Arkoon FAST360 appliances are EAL2+ Common Criteria certified.



SME / BRANCHES

Small-series devices are security appliances which feature a host of functions: applicative filtering, IPSEC VPN and content analysis.

Fitted with 3 GB interfaces, including one 4-port switch, the S90R, S90 and S150 devices excel in meeting the security and performance requirements of remote sites (branches) in the case of large to midsize companies or of main sites in the case of small companies. The S250 appliances with 4 routed ports and a 32 GB SSD disk can be integrated into the even most exacting architectures (availability of WAN links, multiple DMZ, Clusters, etc.) of average size SME up to 100 users.

MID MARKET / DEPARTMENTS

Medium-series devices are security appliances meeting the requirements of large to midsize companies looking for a solution combining multi-functional security, performance, and a high level of connectivity. The neutralization and detection measures deployed in the event of an attack on applications provide a faultless level of protection for the entire information system (VoIP, e-mail client, Intranet, etc.) without compromising on performance.

The winning combination of these characteristics mean that the Arkoon Medium Series appliances offer the best "functionality/performance/price" ratio in its market segment.

LARGE ACCOUNTS / CENTRAL SITES

Large-series devices are appliances that have been optimized to keep filtering even at speeds in excess of 3 giga bytes per second. This exceptional level has been made possible by using the most powerful hardware components on the market, and by leveraging the most recent developments in FAST filtering technology, able to detect and neutralize, in real time, attacks on applications whilst guaranteeing the availability of data using clustering, link redundancy and QoS.

Easy to manage from a central location, the system can deliver the levels of top-notch performance required for networks counting up to several thousands of users (up to one million simultaneous connections).

CENTRALIZED ADMINISTRATION

Arkoon Management Center (AMC): A server dedicated to the advanced, centralized administration of Arkoon FAST360 UTM appliances.

The Arkoon Management Center allows businesses with a multisite configuration (or multi-appliance configuration) to deploy and supervise their network security policy in an optimized, centralized and simple fashion. The AMC administration architecture is compatible with all FAST360 devices. The AMC is to be considered as an addition to the centralized administration solution provided natively by the configuration and supervision tools.

With Arkoon Management Center, a number of additional advanced features are available; in particular, this feature can be used to centralize the management of a security policy on a dedicated server in order to reduce the total cost of ownership and optimize the work of security appliances by unburdening them of the tasks of processing logs and storage.

Given the ever evolving nature of IT security threats, network security needs to once again focus on an in-depth analysis of applications. Especially, a Next Generation Firewall must guarantee conditions of security over the entire product range. Once this has been accomplished, the next step can consist in optimizing administration and integration in the IS by bringing in other security modules via a partner eco-system.

Characteristics



Firewall, preventing and detecting intrusions

Firewall engine based on the patented Fast Application Shield Technology. Compliance analysis in real time.

- Real-time compliancy analysis of network, transport and applicative protocols (20 applicative modules).
- The IDPS in-line FAST module detects attacks on applications using a contextual signature base.
- EAL2+ Share Criteria certified technology.
- Top quality performance of a real-time analysis
- Longevity of the firewall engine constantly updated with new applicative modules
- Protection against phishing, malwares and the abusive usage of tools such as Skype (hidden channels), P2P or instant messaging

Voice data protection

Securing and isolating of VoIP flows via an analysis of voice data transport and signaling protocols: SIP, MGCP, SDP, H323, RTP/RTCP (FAST analysis and IDPS).

- Checking data flows according to the signaling flow (Adaptive Filtering)

- Detection and/or isolation of incoming and outgoing unwanted or non-compliant calls
- Protecting call confidentiality.
- Blocking of Call spamming and IM spamming

Content filtering

Antivirus and antispymware on the smtp, pop3, http and ftp protocols.

Integrated engine, developed by SOPHOS. With integrated anti-spyware and antivirus, and the viral genotype technique

E-mail filtering and "real-time" antispam

Developed via a partnership with COMM-TOUCH, this technology consists in comparing the message digest with a central database

URL Filtering and Web Filtering

The appliances have a native web-filtering engine that can block a wide range of items (Java scripts, active X, etc.) as well as URLs listed in almost 50 categories automatically updated.

- Protection against undesirable and dangerous content
- Complementarity and interaction between the various content-analysis systems

VPN IPSEC

VPN IPSEC Gateway integrated in site-to-site mode or nomad mode.

- Management of backup links and load balancing
- Simplifies, automated configuration (VPN community management)

Network services and QoS

FAST360 appliances comprise dynamic and static routing functions, VLAN and DHCP management, as well as a Quality of Service (QoS) compliant with the Diffserv standard.

- Integration into all types of existing architectures
- Traffic optimization by flow prioritization
- Queue Management and load balancing

Cluster

The Clustering Service can be used to implement 2 appliances in parallel that provide **identical services**:

- **High-Availability mode (active passive):** service continuity without any reduction in performance
- **High-Performance mode (active active):** heavy load balancing over 2 parallel devices

Cavium's Octeon Multicore Processors



Appliances of the Network Processor Network range integrate the most recent generation Cavium Octeon Multicore processors and draw on the rich features of this architecture.

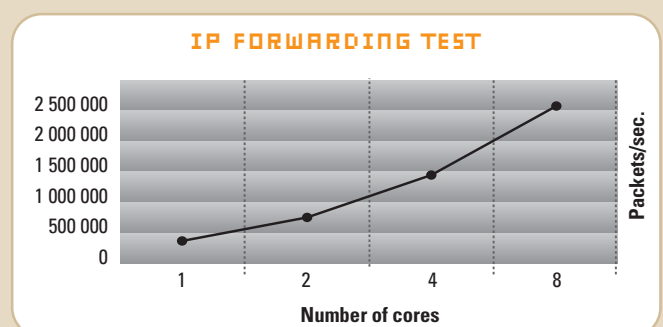
Performance advantages

- Designed for network applications from 100 Mbps to 10 Gbps Full duplex
 - High-speed,
 - Low latency,
 - Optimization for all flow types including "small packets" ("real-time" applications, VoIP).
- Processor functions integrated and run directly on the hardware.
 - Encryption and decryption (VPN Ipsec)
 - Routing, analysis
- Optimization of security and network processing*
 - Dispatching of security functions on "dedicated" cores of the processor: a function that overloads its core (or cores) has no impact on the levels of performance of the functions of the other cores.

Flexibility advantages

- The functions/core correspondence can be configured by the end-user to optimize specific requirements in terms of performance*
- Predictability
 - The speeds are proportional to the number of cores

* FAST360 PostV5.0



Specifications



NETWORK PROCESSOR APPLIANCE

X86 APPLIANCE

	Small Series				Medium Series		Large Series			XLarge Series	
	Small-90R	Small-90	Small-150	Small-250	Medium-500	Medium-1000	Large-1800	Large-2500	Large-3200	A2200	A5200
PERFORMANCE											
Firewall rate (Mbps)	90	90	150	250	500	1 020	1 800	2 500	3 200	2 500	4 000
VPN rate (Mbps)	30	30	50	100	150	300	600	900	1 200	500 (1000 with ASIC)	500
Application filtering rate (FAST+IDPS) (Mbps)	40	40	50	100	130	250	650	950	1 250	1 750	2 800
Simultaneous connections	120 000	120 000	120 000	120 000	120 000	120 000	480 000	480 000	480 000	1 000 000	2 000 000
New connections / second	2 800	2 800	2 800	3 500	5 850	11 500	23 000	35 000	45 000	25 000	40 000
Number of users	10	unlimited	unlimited	unlimited	unlimited	unlimited	unlimited	unlimited	unlimited	unlimited	unlimited
HARDWARE CHARACTERISTICS											
Processor	Cavium Octeon	Cavium Octeon	Cavium Octeon	Cavium Octeon	Cavium Octeon	Cavium Octeon	Cavium Octeon	Cavium Octeon	Cavium Octeon	Intel X86 Xeon	Intel X86 Dual - Xeon
Number of cores	1	1	1	1	1	2	4	6	8	-	-
Frequency	300 Mhz	300 Mhz	500 Mhz	500 Mhz	500 Mhz	500 Mhz	500 Mhz	500 Mhz	500 Mhz	3,4 Ghz	3,4 Ghz
Console port	1 (RJ45)		1 (RJ45)		1 (RJ45)		1 (RJ45)			1 (RJ45)	
USB port ¹	1		-		-		-			-	
Gigabit switch	1 (4 switched ports)		-		-		-			-	
Fast Ethernet 10/100 ports	-		1		2		-			2	2
10/100/1000 Gigabit copper ports	2		3		3		8			6 (10 max)	8 (16 max)
SFP Gigabit port	-		-		-		-			4 (option)	8 (option)
Hard disk capacity	SSD - 2 Go		SSD-32Go		SATA 80 GO		SATA 80 GO			SATA 80 GO	SATA 80 GO (raid 1)
DIMENSIONS / ENVIRONMENT											
Format	Slim Desktop		Rack 1U		Rack 1U		Rack 1U			Rack 2U	Rack 2U
L / W / H (mm)	220/175/33		429/260/44		429 / 260 / 44		429 / 390 / 44			429 / 382 / 88	429 / 382 / 88
Weight	1,2 Kg		3,2 Kg		3,2 Kg		6,5 Kg			11 Kg	11 Kg
Operating temperature	0 to 40°C		0 to 40°C		0 to 40°C		0 to 40°C			5 to 40°C	5 to 40°C
Operating humidity	20 to 90%		20 to 90%		20 to 90%		20 to 90%			20 to 90%	20 to 90%
Storage temperature	0 to 75°C		0 to 75°C		0 to 75°C		0 to 75°C			0 to 70°C	0 to 70°C
Storage humidity	5 to 95%		5 to 95%		5 to 95%		5 to 95%			5 to 90%	5 to 90%
Power Supply	100/ 240 Vac		100/ 240 Vac		100/ 240 Vac		100/ 240 Vac			100/ 240 Vac	100/ 240 Vac
Frequency of Supply	48 – 63 Hz		48 – 63 Hz		48 – 63 Hz		48 – 63 Hz			48 – 63 Hz	48 – 63 Hz
Max. Elect Power	40 W		65 W		65 W		185 W			2x460 W	2x460 W
Certifications	CE, FCC, ROHs		CE, FCC, ROHs, UL		CE, FCC, ROHs, UL		CE, FCC, ROHs, UL			CE,FCC,UL,cUL	CE,FCC,UL,cUL

1. Post V5.0

See all our products and their detailed datasheets on : www.arkoon.com



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