

Security Processing Modules

Performance Enhancing Options for FortiGate® Platforms






Large enterprises often use applications that subject the network to high rates of transactions in the course of daily business. Some applications employ IP multicast techniques to optimize traffic, while others may simply require higher network bandwidth to scale. Unfortunately, some networking and security devices can become bottlenecks as requirements grow, forcing administrators to either reduce the amount of security inspection applied to network traffic or implement higher performance equipment. From the financial sector to the telecommunications industry, enterprises are seeking new ways to optimize their infrastructure while reducing their security risk. To meet the needs of these types of customers, Fortinet offers specialized security processing modules for FortiGate multi-threat security platforms.

Fortinet ADM-XE2, ADM-FE8, and ASM-CE4 security processing modules provide multi-gigabit throughput increases for intrusion prevention, firewall, and IP multicast applications. All models are based on the carrier-class Advanced Mezzanine Card™ (AMC) specification used in many FortiGate multi-threat security platforms. The ADM-XE2 is a double-width AMC module for 10-Gigabit Ethernet networks. The ADM-FE8 is a SFP-based double-width AMC module for Gigabit Ethernet networks. The ASM-CE4 is a single-width AMC module for 10/100/1000 Ethernet networks. Fortinet security processing modules work to increase overall system performance by offloading select security and network processing functions from the FortiGate host system while maintaining all the benefits of a unified security platform.

The Fortinet Advantage

Fortinet's comprehensive portfolio of security products offer a powerful blend of integrated multi-threat protection, ASIC-accelerated performance, and in-depth threat intelligence. This unique combination delivers the highest levels of security to enterprises of all sizes. Fortinet products reduce total cost of ownership and provide a flexible, scalable path for expansion.

	Features	Benefits
 <p>ASM-CE4 4-Port Security Processing Module</p>	Security and Network Processing	Relieves processing burden from the host FortiGate system for intrusion prevention, firewall, and IP multicast applications. The module offloads inspection duties for traffic traversing the module's network interfaces, and thus increases the overall system's performance.
 <p>ADM-FE8 8-Port SFP Security Processing Module</p>	Modular Form Factor	Empowers you with the ability to build the ideal system configuration for any environment. You can also upgrade an existing Fortinet system with new capabilities as your requirements change.
 <p>ADM-XE2 2-Port XFP Security Processing Module</p>	FortiOS™ Integration	Lowers operational burden through total integration with the FortiGate operating system, FortiOS. Realize the benefits of security consolidation with the multi-threat security features offered by FortiGate and FortiOS.

Specifications	ASM-CE4	ADM-FE8	ADM-XE2
Hardware Specifications			
Module Form Factor	Single-Width AMC	Double-Width AMC	Double-Width AMC
10-GbE Interfaces	0	0	2
GbE SFP Interfaces	0	8	0
10/100/1000 Interfaces	4	0	0
Transceivers Included	N/A	2 Short-Range SFP	2 Short-Range XFP
Compatible FortiGate System(s)	FortiGate-1240B FortiGate-3016B FortiGate-3810A FortiGate-5001A-SW	FortiGate-3810A	FortiGate-3810A FortiGate-5001A-DW
Performance Specifications			
Firewall	4 Gbps	8 Gbps	20 Gbps
Intrusion Prevention	1.3 Gbps	1.2 Gbps	1.5 Gbps
Environment			
Operating Temperature	32 – 104 deg F (0 – 40 deg C)	32 – 104 deg F (0 – 40 deg C)	32 – 104 deg F (0 – 40 deg C)
Storage Temperature	-13 – 158 deg F (-25 – 70 deg C)	-13 – 158 deg F (-25 – 70 deg C)	-13 – 158 deg F (-25 – 70 deg C)
Humidity	5 to 95% non-condensing	5 to 95% non-condensing	5 to 95% non-condensing
Compliance			
	FCC Class A Part 15, UL/CB/CUL, C Tick, CE, VCCI	FCC Class A Part 15, UL/CB/CUL, C Tick, CE, VCCI	FCC Class A Part 15, UL/CB/CUL, C Tick, CE, VCCI

Firewall performance was measured using 512B & 1518B UDP packets.
Intrusion prevention performance was measured using HTTP traffic with 32KB packets.

FortiGuard® Security Subscription Services deliver dynamic, automated updates for Fortinet products. The Fortinet Global Security Research Team creates these updates to ensure up-to-date protection against sophisticated threats. Subscriptions include antivirus, intrusion prevention, web filtering, antispam, vulnerability and compliance management, application control, and database security services.

FortiCare™ Support Services provide global support for all Fortinet products and services. FortiCare support enables your Fortinet products to perform optimally. Support plans start with 8x5 Enhanced Support with return and replace hardware replacement or 24x7 Comprehensive Support with advanced replacement. Options include Premium Support, Premium RMA, and Professional Services. All hardware products include a 1-year limited hardware warranty and 90-day limited software warranty.



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SPM-DAT-R3-201004