

FortiCarrier™-3810A

Service Provider
Large Enterprise

Datasheet

Specialized Security Solutions for Service Providers

As the communications industry continues its convergence toward an all-IP model, service providers of all types are challenged with transforming their infrastructure into a modern service delivery network. A service provider's next generation network must be adaptable and able to support new services faster, while also lowering operational costs. As service providers abandon the "stove-pipe" approach to service delivery in favor of next generation architectures, it is critical that they address the security of their new solutions to ensure service uptime and prevent fraud.

From a financial perspective, securing the service delivery platform is key to driving revenue, profitability, and long-term success. A well-architected security infrastructure can also be used to deliver a range of security services to end-users, which increase revenue for the service provider and increase value for the end-user. Fortinet provides such a solution with its FortiCarrier product line, addressing the security needs of both the operator and the end-user in a single, yet extensible, security offering.

FortiCarrier platforms represent a range of security solutions that extend the integrated security concept to protect critical applications across a service provider's IP network. The platforms are designed to secure the business of mobile operators, voice operators, Managed Security Service Providers (MSSPs), and large enterprises, enabling the migration to next generation network architectures. FortiCarrier platforms facilitate rapid service deployment while simultaneously delivering the lowest total cost of ownership for security infrastructure.



FortiCarrier-3810A

Key Problems	Solutions
<ul style="list-style-type: none"> Migration to service delivery over IP networks exposes critical business to new threats. 	<p>FortiCarrier platforms are powered by FortiOS Carrier software, a specialized security operating system that provides multi-threat security with additional extensions to protect the service provider network from cyber attacks, identity theft, network overload, and malicious service hijacking.</p>
<ul style="list-style-type: none"> Competition has commoditized connectivity offerings, driving service providers to differentiate themselves through a portfolio of add-on services. 	<p>In addition to protecting the service network, FortiCarrier platforms give the operator the ability to offer their customers "Security as a Service" from the same platform, maximizing the Fortinet investment and generating incremental revenue at no additional cost.</p>
<ul style="list-style-type: none"> Converged services maintain unique security requirements and are also susceptible to blended threats. 	<p>Fortinet was founded on the concept of integrated security. FortiCarrier platforms integrate multiple inspection technologies that effectively secure multiple services, as well as protect against blended threats.</p>

FortiCarrier Specialized Security Solutions

FortiCarrier specialized security solutions enable security as a service offerings with an integrated set of security technologies that support a wide range of service provider requirements. FortiCarrier systems provide the essential security services from the FortiGate product line, with fully integrated firewall, Virtual Private Network (VPN), intrusion prevention, antivirus/antispayware, Web filtering, antispam, data leakage prevention, and application control services. In addition, FortiCarrier systems extend the integrated security model for service providers to offer signaling firewalling, GTP firewalling, MMS malware scanning, and MMS antispam filtering. Finally, FortiCarrier platforms can dynamically assign security profiles to a subscriber's traffic, automating the provisioning and ongoing management of security services provided to a customer.



TECHNICAL SPECIFICATIONS



HARDWARE SPECIFICATIONS

FortiCarrier-3810A

Standard 10/100/1000 Interfaces (RJ-45)	8
Standard Gigabit SFP Interfaces (SX Standard, LX & TX optional)	2
Maximum Gigabit SFP Interfaces (Requires Optional AMC Modules).....	26
AMC Expansion Slots	2 Double Width 2 Single Width

SYSTEM PERFORMANCE

Firewall Throughput (Base Unit + AMC Module)	37 Gbps
Firewall Throughput (Base Unit).....	7 Gbps
GTP Firewall (Max Tunnels).....	300,000
VPN (IPSec) Throughput (Base Unit + AMC Module)	19 Gbps
VPN (IPSec) Throughput (Base Unit).....	1 Gbps
IPS Throughput	4 Gbps
Antivirus Throughput	500 Mbps
MMS Antivirus Throughput	400 messages per second
Dedicated IPSec VPN Tunnels	64,000
Concurrent Sessions (TCP)	2,000,000
New Sessions/Sec (TCP)	40,000
SIP Throughput	10,000 messages per second
SIP Call Setup Throughput.....	2,000 call attempts per second (CAPS)
SIP Sessions (Max).....	500,000
Policies (Max).....	100,000
Unlimited User Licenses	Yes
Virtual Domains (VDOMs)	10 (up to 250 Optional)
High Availability Configurations	Active/Active, Active/Passive, Clustering

DIMENSIONS

Height.....	1.18 in (30 mm)
Width.....	13.98 in (355 mm)
Length.....	12.20 in (310 mm)
Weight	7.8 lb (3.54 kg)
Power Required	-40.5 V (DC) to -57 V (DC)
Power Consumption (AVG).....	148 W

ENVIRONMENT

Operating temperature.....	32 to 104 deg F (0 - 40 deg C)
Storage temperature.....	-31 to 158 deg F (-35 to 70 deg C)
Humidity	20 to 90% non-condensing
Compliance.....	FCC Class A Part 15, UL/CB/CUL, C Tick, CE, VCCI
Certifications	ICSA Labs: Firewall, IPSec, SSL-TLS, IPS, Antivirus
Firewall and IPS performance is benchmarked using UDP traffic	
Antivirus performance is benchmarked using HTTP traffic (32 Kbyte Objects)	
SIP performance is benchmarked using signalling traffic only	

AMC Expansion Modules

Security Processing Modules

The ASM-XE2 and ASM-CE4 security processing modules for FortiCarrier platforms provide multi-gigabit throughput increases for intrusion prevention, firewall, and IP multicast applications.



ADM-XE2 Security Processing Module
(2-Port 10-GigE Hardware Accelerated)



ASM-CE4 Security Processing Module
(4-Port GigE Hardware Accelerated)

Accelerated Interface Modules

Fortinet accelerated interface modules add incremental hardware accelerated network interfaces to FortiCarrier platforms for wire-speed firewall performance and near wire-speed IPSec VPN performance.



ADM-XB2 Accelerated Interface Module
(2-Port 10-GigE Hardware Accelerated)



ADM-FB8 Accelerated Interface Module
(8-Port GigE Hardware Accelerated)



ASM-FB4 Accelerated Interface Module
(4-Port GigE Hardware Accelerated)

Bypass Modules

Fortinet ASM-CX4 and ASM-FX2 modules provide bypass functionality to FortiCarrier platforms, automatically bridging network traffic in the event of a system or power failure.



ASM-CX4 Bypass Module
(4-Port GigE)



ASM-FX2 Bypass Module
(2-Port Base-SX)

See a Fortinet sales representative for additional configuration considerations and a complete list of available AMC modules.

Images are not to scale

FortiGuard Security Subscription Services

- Antivirus
- Intrusion Prevention
- Web Filtering
- Antispam
- Premier Signature Service
Includes Antivirus and Intrusion Prevention Updates with additional service level agreements

FortiCare™ Support Services

- 24/7/365 Web-Based Technical Support
- Technical Account Management Service (Optional)
- 24-Hour Phone-Based Support (Optional)
- Professional Services (Optional)
- 1-Year Limited Hardware Warranty
- 90-Day Limited Software Warranty



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