

Fortinet Bypass Modules

Hardware Bypass Options for FortiGate® Multi-Threat Security Systems

Ensure Network Continuity

IT administrators are faced with the challenge of securing a network while also ensuring that the network is always available. For critical network segments, this could mean that network availability is valued over ensuring that all traffic is inspected for malicious activity. High availability solutions, where a system fails over to either an active or standby unit, can reduce the risk of a network outage while still providing security services. However, to further reduce the risk of a network outage due to a power failure or a security device malfunction, bypassing the device altogether with a fail-to-wire solution can ensure network continuity at times when security cannot be provided.

Fortinet ASM-CX4 and ASM-FX2 modules provide bypass functionality to FortiGate multi-threat security systems equipped with an available single-width Advanced Mezzanine Card (AMC) expansion bay. The ASM-CX4 is a single-width AMC module which provides four (4) 10/100/1000 copper (RJ-45) Ethernet interfaces for two protected segments of network traffic. The ASM-FX2 is a single-width AMC module which provides two (2) gigabit fiber (LC, 850nm) Ethernet interfaces for a single protected segment of network traffic. Operating in transparent mode during normal operation, both modules automatically bridge network traffic in the event of a system failure or power outage to ensure mission-critical network continuity.

FortiGate Multi-Threat Security Solutions

FortiGate multi-threat security solutions provide an integrated set of security services in a single, easy-to-manage platform that is capable of supporting a wide range of deployment scenarios. FortiGate systems provide essential security services, with fully integrated firewall, virtual private network (VPN), intrusion prevention, antivirus/antispyware, web filtering, antispam, and application control. To ensure that the security effectiveness of the FortiGate solutions remains at the highest levels possible, Fortinet offers FortiGuard® subscription services that include antivirus updates, intrusion prevention updates, an antispam rating service, and a Web filtering rating service. A wide range of hardware models is available for any network size—from the remote office or branch office to the high-speed core or data center.

FortiOS 4.0 Software Redefines Networks Security

DATASHEET

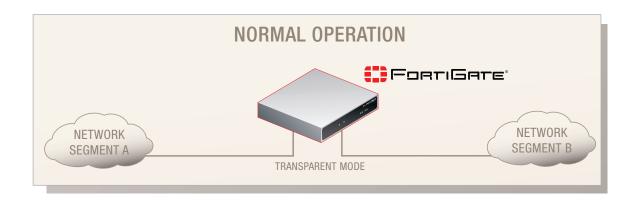
FortiOS 4.0 is a purpose-built operating system that leverages the power of specialized FortiASIC hardware to offer increased levels of security and performance. Fortinet developed FortiOS 4.0 software solely for the FortiGate multi-threat security platform. FortiOS software enables a comprehensive suite of security services - firewall, VPN, intrusion prevention, antimalware, antispam, web filtering, application control, data loss prevention, vulnerability management, and end point network access control.

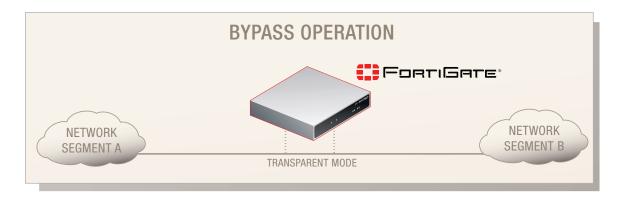
The FortiASIC Advantage

FortiASIC processors power FortiGate platforms. With exclusive hardware, the purpose built, highperformance network, security, and content processors use intelligent and proprietary digital engines to accelerate resource-intensive security services.

Challenge	Solution	
Fail-to-Wire Bypass	Maximize network uptime by using Fortinet bypass modules to automatically fail-to-wire in the event of a power outage or any other type of event that would cause the host device to degrade the availability of the network segment. The modules automatically return to normal operating mode when conditions permit.	
Modular Form Factor	Empowers customers with the ability to add bypass to existing systems with an available single-widtl AMC expansion bay or to customize a new solution to match defined requirements.	
FortiOS™ Integration	Increases the administrator's ability to monitor and control the bypass status of interfaces remotely, with the ability to view mode of operation, manually switch interfaces into bypass or normal operation mode, and configure thresholds for automatic bypass fail-to-wire.	

Technical Specification	ASM-CX4	ASM-FX2		
HARDWARE				
10/100/1000 Interfaces (Copper, RJ-45)	4	0		
1Gb Optical Interfaces (Fiber, LC, 850nm)	0	2		
AMC Expansion Slots Required	1 Single-Width	1 Single-Width		
MODULE PERFORMANCE				
Normal Operation	Varies, Dependant on System Performance			
Bypass Operation	Link Speed			
Power Required	Up to 2 circuits, 100 - 240 VAC, 60 - 50 Hz, 8 - 5 Amp (Max)			
ENVIRONMENT				
Operating temperature	32 to 104 deg F (0 - 40 deg C)			
Storage temperature	-13 to 158 deg F (-25 to 70 deg C)			
Humidity	5 to 90% non-condensing			
Compliance	FCC Class A, Part 15, UL/CUL, C Tick, CE, VCCI			





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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