

FortiSwitch™ -5003A

Large Enterprises
Service Providers
Carriers

Datasheet

Securing 10-Gigabit Ethernet Networks

Threats against today's networked assets are complex, with targeted attacks that aim to impact business by penetrating systems, stealing confidential information, creating denial of service conditions, or causing costly network outages. The increases in server density within the data center, primarily from server virtualization technologies, combined with the increased adoption of 10-Gigabit Ethernet networks, only compound the challenge of providing effective network security. Point-based security appliances fall short of addressing the security and performance requirements of large networks due to increases in threat complexity and lack of integration among defense mechanisms. The FortiGate®-5000 series multi-threat security platform addresses both security and performance needs by integrating multi-threat protection into purpose-built hardware that effectively blocks multiple threats while maintaining network continuity, even at 10-Gigabit network speeds.

Next Generation FortiGate-5000 Series Security

The FortiSwitch-5003A blade provides 10-Gigabit Ethernet switching services to the FortiGate-5000 series security platform. Combined with a FortiGate-5000 series chassis (FG-5140 or FG-5050), the Rear Transition Module XB2 (RTM-XB2) and multiple FortiGate multi-threat security blades, the FortiGate-5000 series platform provides multi-gigabit network security using a 10-Gigabit Ethernet network environment. The FortiGate-5000 series offers the highest levels of security, performance, flexibility, and reliability—while also allowing large enterprises and service providers to scale the capacity of the network security solution as the business grows or as security requirements change.



FortiSwitch-5003A



FortiGate-5000 Series

Key Problems	Solutions
Threats are constantly evolving, with threats against IT systems operating at the network and content levels.	The FortiGate-5000 series provides complete threat protection that addresses multiple threats within a single solution. With the flexible FortiGate security policy model, users can adapt to changing security requirements without requiring changes in hardware or software components.
Data centers require space saving, highly modular, and serviceable networking and security systems.	To keep mission critical applications available, FortiGate-5000 series are fully modular, chassis-and-blade based systems with complete high-availability capabilities, backplane fabric interconnects between blades, and hot swappable components for added redundancy, including blade modules, power supplies, and fan trays.
10-Gigabit Ethernet networks require high-performance security systems which will not introduce latency.	The FortiGate-5000 series provides a scalable platform that is 10-Gigabit Ethernet ready—delivering multi-gigabit security while maintaining ultra-low latency for time-sensitive applications.
Virtualized server farms need virtualized security solutions to reduce physical space, power, and cost.	The FortiGate-5000 Series includes support for high-density virtual domains (VDM) that can segment network security by customer, business unit, or nearly any type of network segmentation required.

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.

Technical Specifications

FortiSwitch-5003A

Hardware Specifications

10-Gigabit Ethernet (SFP+) Fabric Channel Interfaces	8
SFP+ SR Optical (850nm) 10-GbE Transceivers Included	2
10-Gigabit Ethernet (SFP+) Base Channel Interfaces	1
10/100/1000 Ethernet Base Channel Interfaces	2

System Performance

Total Fabric Channel Switching Throughput	225 Gbps
10-Gigabit Backplane Fabric Support (requires RTM-XB2)	Yes
Gigabit Backplane Fabric Support	Yes

Dimensions

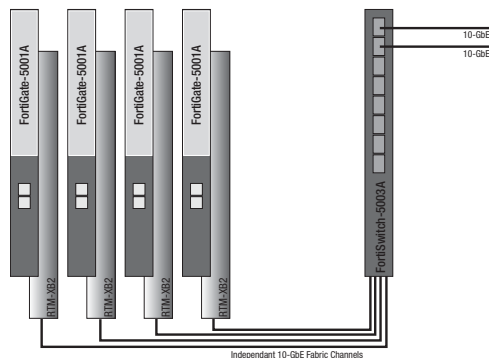
Height	1.18 in (30 mm)
Width	13.98 in (355 mm)
Length	12.20 in (310 mm)
Weight	5.5 lb (2.49 kg)

Power Required	-40.5 V (DC) to -57 V (DC)
Power Consumption (AVG)	96 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, CE

Sample FortiSwitch-5003A Configuration



In this configuration, traffic from two 10-Gigabit Ethernet links are distributed by the FortiSwitch-5003A to one of four FortiGate-5001A security blades. The FortiSwitch blade can load balance traffic automatically, directing traffic flows to one of the FortiGate blades for security inspection. Traffic is routed to the FortiGate-5001A via the RTM-XB2 module's 10-Gigabit Fabric channel link. Due to the modular nature of the system, many combinations of FortiGate-5000 Series components are possible. Ask a Fortinet Sales Engineer for more information and to design the configuration that best fits your needs.

FortiSwitch-5003A Compatible Chassis



FortiGate-5140

FortiGate-5140 Chassis

- 14 Available Slots
- High-Availability Backplane
- Base Channel
- Dual Switch Blade Support



FortiGate-5050

FortiGate-5050 Chassis

- 5 Available Slots
- High-Availability Backplane
- Dual Switch Blade Support

Recommended with FortiSwitch-5003A



FortiGate-5001A
(FG-5001A-DW / FG-5001A-SW)

FortiGate-5001A Security Blade

- Provides effective and integrated multi-threat security
- Combine multiple FortiGate-5001A blades and RTM-XB2 modules with the FortiSwitch-5003A to scale performance
- Modular design is easily upgraded via the Advanced Mezzanine Card (AMC) expansion bay (one dual-width [DW] or one single-width [SW])



RTM-XB2

RTM-XB2 Fabric Module

- Provides 10-Gigabit Ethernet backplane fabric connectivity to a FortiGate-5001A and FortiSwitch-5003A equipped system
- Includes FortiASIC hardware acceleration
- One RTM-XB2 required per FortiGate-5001A security blade for 10-Gigabit Ethernet support

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 FortiCare Web-based support
- Technical account management service available
- 24-Hour phone support available
- Professional services available
- 1-Year limited hardware warranty

FORTINET

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