

Firebox® X Peak Hardware Guide

Firebox® X5000, Firebox® X6000, Firebox® X8000



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DECLARATION OF CONFORMITY

WatchGuard Technologies, Inc.

505 Fifth Ave. S., Suite 500
Seattle, WA 98104-3892
USA

WatchGuard Technologies Inc. hereby declares that the product(s) listed below conform to the European Union directives and standards identified in this declaration.

Product (s):

Internet Firewall and VPN (Encryption) Network Device, Model A0AE7T3

EU Directive(s):

Low Voltage (73/23/EEC)
Electromagnetic Compatibility (89/336/EEC)

Standard(s):

EN60950-1 (Dec 2001) Safety of ITE

EN50022 (1998)+A1:2000 class A	Emissions for ITE
EN61000-3-2	Harmonics
EN61000-3-3	Flicker
EN50024 (1998)+A1:2000	Immunity for ITE

Signature

Full Name Edward Borey

Position Chairman/CEO

Date 16 February 2005

FCC Certification

This device has been tested and found to comply with limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. Operation is subject to the following two conditions:

This device may not cause harmful interference.

This device must accept any interference received, including interference that may cause undesired operation.

CE Notice

The CE symbol on your WatchGuard Technologies equipment indicates that it is in compliance with the Electromagnetic Compatibility (EMC) directive and the Low Voltage Directive (LVD) of the European Union (EU).



Industry Canada

This Class A digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Cet appareil numérique de la classe A respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

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Firebox X Peak Hardware Guide

The Firebox® X Peak is a line of model-upgradeable, integrated security devices designed to deliver superior security with optimized performance for your network-intensive enterprise or data center. Each appliance includes these features for comprehensive protection of your network:

- Stateful firewall
- Gateway antivirus
- Behavioral and signature-based intrusion prevention
- Deep application inspection
- Web content filtering
- Virtual private networking
- Authentication

The Firebox X Peak features an Intelligent Layered Security architecture that identifies and blocks threats at many layers. This cooperative protection keeps your network safe from threats which come from the outside and inside your network.

Firebox X Peak devices ship with WatchGuard's next generation operating system — Fireware Pro. Some features Fireware Pro provides include:

- Advanced networking features

-
- High availability
 - Quality of service
 - Dynamic routing protocol support
 - AES VPN encryption

The WatchGuard® System Manager management software is an intuitive interface to configure, manage and monitor all the Firebox X devices on your network.

The Firebox X Peak model line also includes high port density and gigabit throughput capacity to accommodate your network intensive requirements. The device is packaged in a 1U rack-mountable form factor for space-saving installation.

For information on installing the Firebox X Peak device, see the Firebox X Peak QuickStart Guide or the “Getting Started” chapter in the WatchGuard System Manager User Guide. Thank you for selecting the Firebox X Peak to protect your network. We look forward to meeting your security requirements in these dynamic times.

Package Contents

The package contains this Hardware Guide and:

- Quick Start Guide
- Firebox® X Peak device
- 3 straight-through Ethernet cables (green)
- 1 crossover Ethernet cable (red)
- 1 serial cable (blue)
- 1 DB9 adapter
- 1 rack-mounting kit
- WatchGuard® System Manager CD-ROM
- LiveSecurity® Service activation card
- License key
- Warranty card
- 4 rubber pads for the bottom of the appliance

Hardware Specifications

This table shows the hardware specifications for the Firebox® X Peak.

Processor	2.8 GHz Intel based Processor
Memory - Flash	128 MB
Memory - RAM	512 MB
Cache	512 KB Level 2
Power supply	100-240 VAC Autosensing
System Bus	PCI-X 64-bit, 66Mhz and PCI 32-bit, 33Mhz
Dimensions	D=13.5" (34.29 cm) W=16.75" (42.55 cm) H=1.75" (4.45 cm)
Weight	12 lbs (5.44 Kg)
Current	1.2Amps @ 115VAC
Heat dissipation	471 BTU/hour

Interface Specifications

This table shows the interface specifications for the Firebox® X Peak.

Network interfaces	7 x 10/100 Mbps Fast Ethernet auto-negotiate (half/full duplex) RJ-45 3 x 10/100/1000 Gigabit Ethernet, auto-negotiate (half/full duplex), RJ-45
Serial ports	2 DB9 (1 front, 1 rear)
USB ports	1 USB 2.0

Environmental Requirements

We recommend that you uses these guidelines to install your Firebox® X Peak device safely:

- Install in a network rack

- Put in a secure area, such as a locked room, to block personnel from physical access to the device who do not have permission
- Connect to a conditioned power supply to prevent damage which a sudden power change can cause

This table shows environmental requirements:

Operating temperature	0 – 45 degrees Celsius (32 – 113 degrees Fahrenheit)
Operating humidity	10% - 85%
Non-operating temperature	-40 – 70 degrees Celsius (-40 – 158 degrees Fahrenheit)
Non-operating humidity	10% – 95% Non-condensing at 55 degrees Celsius (131 degrees Fahrenheit)
Non-operating random vibration	7 – 28 Hz 0.001 to 0.01 G ² per Hz
Acoustic noise	57 dBA at 20° - 25°C
Operating mechanical shock	20.0 G with 11 Msec duration 1/2 sine wave

Hardware Description

Firebox X front

This photograph shows the front panel the Firebox® X Peak.



The photograph below is a close-up of the left side of the Firebox® X Peak. It shows the LCD indicator panel. For more information, see the “LCD Display” appendix of the Fireware Configuration Guide.

From the left, the indicators are as follows:



Front Panel Display

The LCD screen shows Firebox X Peak status information. Use the buttons to change the information that appears.

LCD Console Buttons

Use the LCD Console buttons to see or edit the Firebox X Peak status and configuration.

Reset

Use the Reset button to reset the Firebox.

Power

An amber LED (light-emitting diode) indicates that the power is on.

Storage

A green LED indicates that the Firebox is writing to or reading from the compact flash card or the hard drive disk (if installed).

Arm/Disarm

A green LED indicates the Firebox is armed. A red LED indicates the Firebox is disarmed.

DB9 Serial Port (Console)

A DB9 connector for the serial port. This serial port has a door that it is necessary to remove to use the serial port.

USB Port

The USB port is not currently used. This feature is reserved for possible future use.

The photograph below shows a close-up of the right side of the Firebox X Peak. From the left, the indicators and connections are as follows.



Ethernet interfaces

All ethernet interfaces have standard RJ45 connectors. The maximum speed for each interface depends on the Firebox X model you purchased.

Firebox X Model	10/100/1000 interfaces	10/100 Interfaces
X5000	none	interface 0–9
X6000	interface 0	interface 1–9
X8000	interface 0, 1, 2	interface 3–9

The first three interfaces have a label to identify them as 0, 1, and 2. The label also shows the maximum speed with the text 10/100/1000.

The subsequent seven interfaces have a label to identify them as 3 - 9. The label also shows the maximum speed with the text 10/100.

LEDs (Interfaces 0–2)

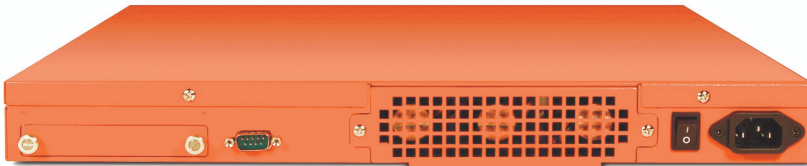
There are three rows of LEDs above the first three interfaces. They show the speed of the interfaces. The LED columns have a label with the text 0, 1, and 2. The labels also show the speed with the text 10 Mbps, 100Mbps, and 1000 Mbps. When an LED comes on, it shows the current speed of the specified interface.

LEDs (Interfaces 3–9)

LEDs are assembled into the interfaces 3 through 9. The left LED comes on when the interface transmits traffic at 100 Mbps. The right LED comes on when the interface transmits traffic at 10 Mbps.

Firebox X rear

The rear of the Firebox® X Peak has the AC power receptacle, power button, a second DB9 serial port, and two panels which you can remove.



Left Panel (Hard Disk Drive)

You can open the panel on the lower left side. Remove the two screws. This panel gives access to an optional hard disk drive. This feature is reserved for possible future use.

DB9 Serial Port (Aux)

This serial port is reserved for possible future use.

Fan Assembly

The fan assembly has three fans that decrease the internal temperature of the Firebox X Peak.

Power Switch

This switch starts the Firebox X Peak.

AC Receptacle

Accepts the detachable, AC power cable supplied with the Firebox X. The power supply for the Firebox X Peak is a WatchGuard standard auto-sensing AC power supply.

