

WatchGuard® V10, V60L, V60, V80, V100 Hardware Guide

Vclass 5.0



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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:

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

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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, Models V3064R2, V2CE4H2, V1BE4H2, V0AF2H2, and V3HF2H2.

EU Directive(s):

Low Voltage (73/23/EEC)

Electromagnetic Compatibility (89/336/EEC)

Standard(s):

EN 60950 : 1992 (A1:1993; A2:1993; A3:1995; A4:1997; A11:1997)

EN50022 (1998), Class A

EN50024 (1998)

Signature

Full Name Jim Cady

Position President, CEO

Date 26 February 2003

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Hardware Descriptions

This chapter provides a visual tour of the external hardware features of the WatchGuard® Firebox® V10, V60, V80, and V100 security appliances, focusing on the buttons, LEDs, interfaces, ports. Please see the *Firebox Vclass User Guide* for installation instructions.

Package Contents

Each appliance model is packaged with different contents, as described in this section.

WatchGuard Firebox V10 security appliance

- One 12V 1.25A, power supply
- Two green, straight-through, 10/100 BaseT, Ethernet cables
- A CD containing the WatchGuard Vcontroller application software for use with three different operating systems: Windows 2000/XP, Solaris,

and Linux. The CD also provides electronic versions of the complete user documentation set.

WatchGuard Firebox V60, V60L, and V80 security appliance

- One power cord
- One red, crossover 10/100 BaseT Ethernet cable
- Three green, straight-through, 10/100 BaseT, Ethernet cables
- One console, RJ 45-to-RJ 45, serial cable and DB-9 adapter
- One APC-manufactured, appliance-to-UPS device cable
- A CD containing the WatchGuard Vcontroller application software for use with three different operating systems: Windows 2000/XP, Solaris, and Linux. The CD also provides electronic versions of the complete user documentation set.
- Rack-mounting hardware. If you are mounting the appliance in a rack, note that Firebox V60L, V60, and V80 appliances are 1U high.

WatchGuard Firebox V100 security appliance

- One power cord
- One red, crossover, 10/100 BaseT, Ethernet cable
- One green, straight-through, 10/100 BaseT, Ethernet cable
- Two optical, data cables
- One APC-manufactured, appliance-to-UPS device cable
- One console, RJ 45-to-RJ 45, serial cable and DB-9 adapter
- A CD containing the WatchGuard Vcontroller application software for use with three different

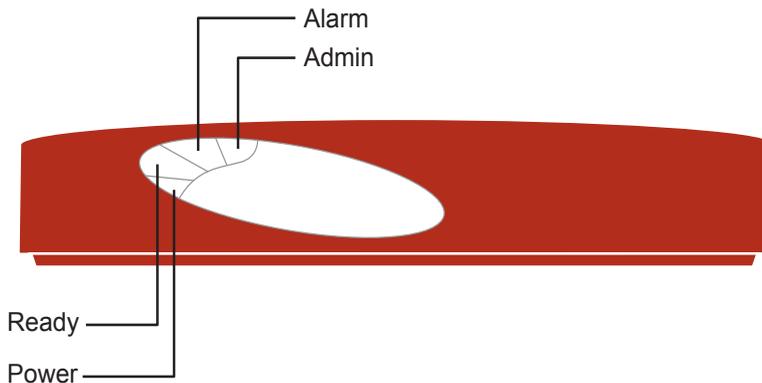
operating systems: Windows 2000/XP, Solaris, and Linux. The CD also provides electronic versions of the complete user documentation set.

- Rack-mounting hardware. If you are mounting the appliance in a rack, note that the Firebox V100 is 1 U high.

Front and Back Views

The Firebox V10 model

The front panel of a Firebox V10 appliance contains the indicators shown in the following illustration.



The LEDs on the front panel are as follows:

Power

Illuminates when the appliance has been turned on.

Ready

Blinks when the appliance is powering up.
Illuminates when the appliance is ready for network traffic.

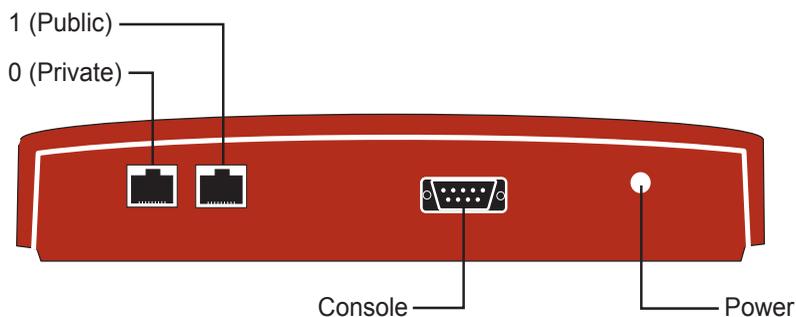
Alarm

Illuminates when certain alarms are triggered. For more information on alarms, see the *Firebox Vclass User Guide*.

Admin

Illuminates when a system administrator is connected to the appliance by means of the Vcontroller or the WatchGuard CLI.

The back panel of a Firebox V10 appliance contains the interfaces and ports shown in the following illustration.



0 (Private) and 1 (Public)

Two Ethernet interfaces (RJ-45 connectors) labeled 0 and 1, act as the primary data interfaces. Incorporated into each Ethernet interface are two indicator lights labeled 10 and 100. These LEDs indicate the speed of traffic being transmitted.

Console

A single RJ-45 interface permits a direct workstation-to-appliance connection. You can use the WatchGuard Command Line Interface (CLI) to configure and administer this appliance. For more information about this administrative option, see the *CLI Guide*.

Power Port

This interface serves as the connection to a 100VAC-to-240VAC (50/60Hz) source. Use the power cord supplied in the package to connect this appliance to a UPS device or to a power outlet. The power supply can auto-detect 110/220 voltage.

NOTE

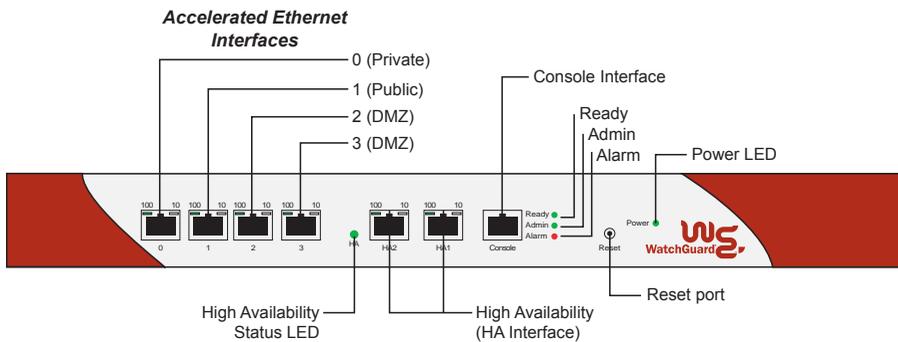
Always connect the power cable to the power port on the back of the V10 before you connect it to the AC outlet.

NOTE

In the event of a power failure, this security appliance, if left connected to the power source, automatically restarts itself after electrical power has been restored. You do not have to unplug and then reconnect the appliance to the power source.

The Firebox V60, V60L and V80 models

The front panels of the Firebox V60, V60L, and V80 security appliances contain the features shown in the following illustration.



Accelerated Ethernet Interfaces

Four accelerated, Ethernet interfaces (RJ-45 connectors) labeled 0 (*Private*), 1 (*Public*), 2 (*DMZ1*), and 3 (*DMZ2*) act as the primary conduits through which passes all of the network data traffic. Incorporated into each interface are two indicator

lights labeled **10** and **100**. These LEDs indicate the speed of traffic being transmitted.

High Availability Status LED

Indicates the current status of this appliance, if it is one of two connected as a high-availability system. If this is the primary appliance, and the light is on and steady, the system is functional, and this appliance is on-line. If this is the primary appliance and the LED is blinking, a failover has occurred and the secondary appliance is online.

High Availability Interfaces

Two Ethernet interfaces, labelled *HA2* and *HA1* enable you to connect with a cross-over Ethernet cable to other High Availability-ready Firebox Vclass appliances for failover (backup) protection. Incorporated into the two high-availability Ethernet ports are two indicator lights labeled *10* and *100*. These LEDs indicate the speed traffic is transmitted.

Console Interface

A single RJ-45 interface, labeled *Console*, permits a direct workstation-to-appliance connection. You can use the WatchGuard Command Line Interface (CLI) to configure and administer this appliance. For more information about this administrative option, see the *CLI Guide*.

Ready

Blinks when the appliance is powering up. Illuminates when the appliance is ready for network traffic.

Admin

Illuminates when a system administrator is connected to the appliance by means of the Vcontroller or the WatchGuard CLI.

Alarm

Illuminates when certain alarms are triggered. For more information on alarms, see the *Firebox Vclass User Guide*.

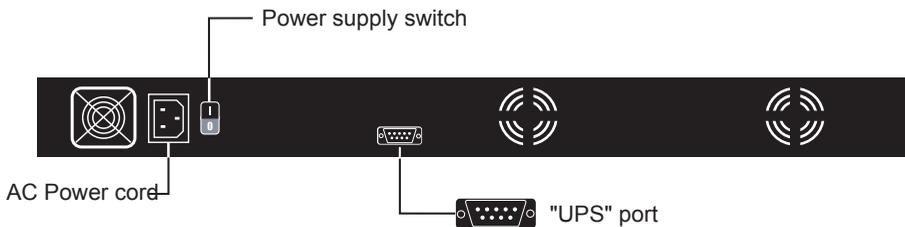
Reset port

This opening allows you to insert a straight pin or paperclip and press an internal reset switch that restarts the appliance.

Power LED

Illuminates when the appliance has been turned on.

The back panel of a Firebox V60, V60L, or V80 contains the features shown in the following illustration.

**AC Power Cord**

Enables you to connect the appliance (using the supplied power cord) to a 100 to 240VAC (50/60Hz) power source.

NOTE

Do not connect Firebox Vclass appliance to a source of power that supplies the wrong voltage. Doing so will damage the appliance and void the warranty.

Power Supply Switch

Allows you to turn the appliance on or off.

UPS Port

Permits connection of the appliance to an *Uninterruptable Power Supply* (UPS). This type of connection enables UPS devices to notify the

appliance if the power goes out, prompting the appliance to shut itself down properly.

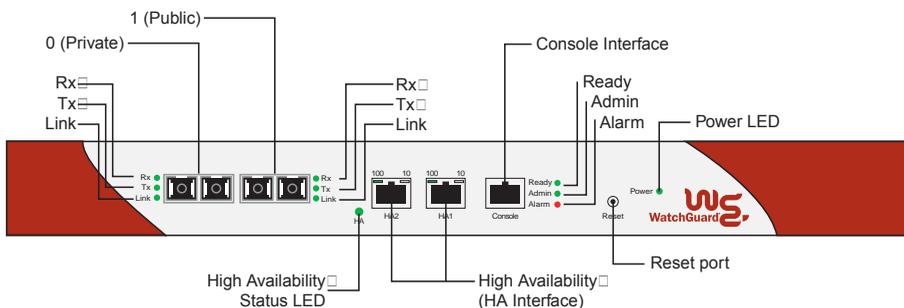
UPS devices from American Power Company (APC) are currently supported by the Firebox Vclass power management firmware. Check the WatchGuard Web site (www.watchguard.com) for updated information on complete UPS support.

NOTE

In the event of a power failure, this security appliance, if left connected to the power source, will automatically restart itself after electrical power has been restored. You do not have to press either the Power button on the front or the power supply switch on the back of the appliance.

The Firebox V100 model

The front panel of the Firebox V100 security appliance contains the features shown in the following illustration.



Gigabit interfaces

Two Gigabit Ethernet interfaces, labeled 0 and 1 (corresponding to Private and Public), act as the primary conduits through which network traffic

passes. These interfaces are multi-mode, but they do not support 10/100 communications.

On each side of the two Gigabit interfaces are three LEDs labeled *RX*, *TX*, and *Link*.

The **Link** LED is lit when a connection is active.

The **RX** LED blinks steadily when data packets are being received by the appliance.

The **TX** LED blinks steadily when data packets are being transmitted.

High Availability Status LED

Indicates the current status of this appliance, if it is one of two connected as a high-availability system. If this is the primary appliance, and the light is on and steady, the system is functional, and this appliance is online. If this is the primary appliance and the LED is blinking, a failover has occurred and the secondary appliance is online.

For more information on HA setup, see the *Firebox Vclass User Guide*.

High Availability Interfaces

Two Ethernet interfaces, labelled *HA2* and *HA1* enable you to connect with a cross-over Ethernet cable to other High Availability-ready Firebox Vclass appliances for failover (backup) protection. Incorporated into the two high-availability Ethernet ports are two indicator lights labeled *10* and *100*. These LEDs indicate the speed traffic is transmitted.

Console Interface

A single RJ-45 interface, labelled *Console*, supports a direct workstation-to-appliance connection. You can use the WatchGuard Command Line Interface (CLI) to administer and test this appliance. To learn more about this administrative option, see the *CLI Guide* included on the installer CD.

Ready

Blinks when the appliance is powering up or powering down. It is steadily lit when the appliance is ready for network traffic.

Admin

Illuminates when a user or system administrator is connected to the Firebox Vclass appliance by means of the Vcontroller or the WatchGuard CLI.

Alarm

Indicates when an alarm is activated. For more information on alarms, see the *Firebox Vclass User Guide*.

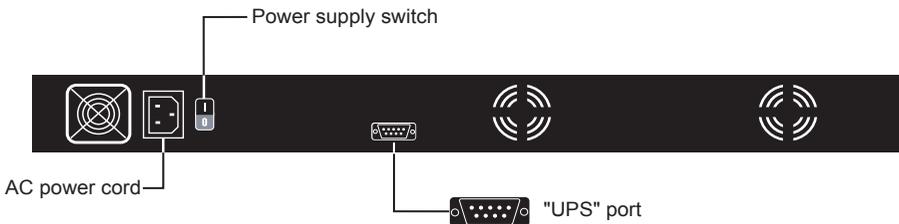
Reset Port

Allows you to insert a straight pin or paperclip and press an internal Reset switch that restarts the appliance. This is an alternative to unplugging and replugging the power cord.

Power LED

Indicates whether the appliance has been fully turned on and is ready for administration or use.

The back panel of a Firebox V100 includes the features shown in the following illustration.1



NOTE

Do not connect any Firebox Vclass appliance to a source of power that supplies the wrong voltage. Doing so will damage the appliance and void the warranty.

AC Power Cord

Enables you to connect the appliance (using the supplied power cord) to a 100 to 240VAC (50/60Hz) power source. The power supply can auto-detect 110/220 voltage.

Power Supply Switch

Allows you to turn the appliance on or off.

UPS Port

Allows you to use the RS-232 cable provided in the package to connect the appliance to an *Uninterruptable Power Supply* (UPS). This type of connection enables UPS devices to notify the appliance if the power goes out, prompting the appliance to shut itself down properly.

UPS devices from American Power Company (APC) are currently supported by the Firebox Vclass power management firmware. Check the WatchGuard Web site (www.watchguard.com) for updated information on complete UPS support.

NOTE

In the event of a power failure, this security appliance, if left connected to the power source, will automatically restart itself after electrical power has been restored. You do not have to press either the Power button on the front or the power supply switch on the back of the appliance.

Firebox V10, V60, V60L, V80, and V100 Components

Every appliance has three sets of components:

RapidCore™ hardware ensemble

A well-integrated chip set and memory system powers every Firebox Vclass appliance in its

primary duties: protecting your network and efficiently managing all legitimate data streams.

WatchGuard Firebox Vclass Operating System™ (OS)

Every Firebox Vclass security appliance is preinstalled with the latest version of the Firebox Vclass Operating System—which is identified on the packaging by a version number. This operating system includes all the software resources that make the appliance fully functional.

WatchGuard Firebox Vclass administrative client applications

The WatchGuard Vcontroller (or the companion WatchGuard CPM client software) gives you full control of all the customizable operating system parameters, including basic system configurations, security policies, maintenance, and activity logging.

If you already have one or more operational Firebox Vclass appliances in your network, you can shortcut the installation and configuration process on a new factory-default appliance. First, export a complete configuration file from an operational appliance and then import it into the new appliance. After this is done, you can change a few key settings and have a fully functional appliance in location and ready for use. For more information, see *Firebox Vclass User Guide*.

NOTE

This manual refers to the accelerated data interfaces interchangeably as *Private*, *Public*, and (where available) *DMZ* or with the standard interface numbering (0, 1, etc.):
0 = Private, 1 = Public, 2&3 = DMZ
Where other interfaces are included (a second DMZ or High Availability), the corresponding interface numbering will be noted at that time.

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