

Firebox® X Core™ e-Series **Firebox® X Peak™ e-Series** **Hardware Guide**

Firebox X550e, Firebox X750e, Firebox X1250e
Firebox X5500e, Firebox X6500e, Firebox X8500e, Firebox X8500e-F



Copyright and Patent Information

Copyright© 1998 - 2007 WatchGuard Technologies, Inc. All rights reserved.

WatchGuard, the WatchGuard logo, Firebox, LiveSecurity, and any other mark listed as a trademark in the "Terms of Use" portion of the WatchGuard Web site that is used herein are either registered trademarks or trademarks of WatchGuard Technologies, Inc. and/or its subsidiaries in the United States and/or other countries. All other trademarks are the property of their respective owners.

Printed in the United States of America.

Publication ID: 276-2559-002

Text ID: 276-2559-002

Doc Version: 8.3

U.S. Patent Nos. 6,493,752; 6,597,661; D473,879. Other Patents Pending.

Complete copyright, trademark, patent, and licensing information can be found in the WatchGuard System Manager User Guide. You can find this document online at:
<http://www.watchguard.com/help/documentation/>

Notice to Users

Information in this guide is subject to change without notice. Companies, names, and data used in examples herein are fictitious unless otherwise noted. No part of this guide may be reproduced or transmitted in any form or by any means, electronic or mechanical, for any purpose, without the express written permission of WatchGuard Technologies, Inc.

Limited Hardware Warranty

This Limited Hardware Warranty (the "Warranty") applies to the enclosed Firebox hardware product, not including any associated software which is licensed pursuant to a separate end-user license agreement and warranty (the "Product"). BY USING THE PRODUCT, YOU (either an individual or a single entity) AGREE TO THE TERMS HEREOF. If you do not agree to these terms, please return this package, along with proof of purchase, to the authorized dealer from which you purchased it for a full refund. WatchGuard Technologies, Inc. ("WatchGuard") and you agree as set forth below or on the reverse side of this card, as applicable:

1. LIMITED WARRANTY. WatchGuard warrants that upon delivery and for one (1) year thereafter (the "Warranty Period"): (a) the Product will be free from material defects in materials and workmanship, and (b) the Product, when properly installed and used for its intended purpose and in its intended operating environment, will perform substantially in accordance with WatchGuard applicable specifications.

This warranty does not apply to any Product that has been: (i) altered, repaired or modified by any party other than WatchGuard except for the replacement or inclusion of specified components authorized in and performed in strict accordance with documentation provided by WatchGuard; or (ii) damaged or destroyed by accidents, power spikes or similar events or by any intentional, reckless or negligent acts or omissions of any party. You may have additional warranties with respect to the Product from the manufacturers of Product components. However, you agree not to look to WatchGuard for, and hereby release WatchGuard from any liability for, performance of, enforcement of, or damages or other relief on account of, any such warranties or any breach thereof.

2. REMEDIES. If any Product does not comply with the WatchGuard warranties set forth in Section 1 above, WatchGuard will, following receipt of the product you claim is defective and at its option, either (a) repair the Product, or (b) replace the Product; provided, that you will be responsible for returning the Product and for all costs of shipping and handling. Repair or replacement of the Product shall not extend the Warranty Period. Any Product, component, part or other item replaced by WatchGuard becomes the property of WatchGuard. WatchGuard shall not be responsible for return of or damage to any software, firmware, information or data contained in, stored on, or integrated with any returned Products.

3. DISCLAIMER AND RELEASE. THE WARRANTIES, OBLIGATIONS AND LIABILITIES OF WATCHGUARD, AND YOUR REMEDIES, SET FORTH IN PARAGRAPHS 1 AND 2 ABOVE ARE EXCLUSIVE AND IN SUBSTITUTION FOR, AND YOU HEREBY WAIVE, DISCLAIM AND RELEASE ANY AND ALL OTHER WARRANTIES, OBLIGATIONS AND LIABILITIES OF WATCHGUARD AND ALL OTHER RIGHTS, CLAIMS AND REMEDIES YOU MAY HAVE AGAINST WATCHGUARD, EXPRESS OR IMPLIED, ARISING BY LAW OR OTHERWISE, WITH RESPECT TO ANY NONCONFORMANCE OR DEFECT IN THE PRODUCT (INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ANY IMPLIED WARRANTY ARISING FROM COURSE OF PERFORMANCE, COURSE OF DEALING, OR USAGE OF TRADE, ANY WARRANTY OF NONINFRINGEMENT, ANY WARRANTY OF UNINTERRUPTED OR ERROR-FREE OPERATION, ANY OBLIGATION, LIABILITY, RIGHT, CLAIM OR REMEDY IN TORT, WHETHER OR NOT ARISING FROM THE NEGLIGENCE (WHETHER ACTIVE, PASSIVE OR IMPUTED) OR FAULT OF WATCHGUARD OR FROM PRODUCT LIABILITY, STRICT LIABILITY OR OTHER THEORY, AND ANY OBLIGATION, LIABILITY, RIGHT, CLAIM OR REMEDY FOR LOSS OR DAMAGE TO, OR CAUSED BY OR CONTRIBUTED TO BY, THE PRODUCT).

4. LIMITATION AND LIABILITY. WATCHGUARD'S LIABILITY (WHETHER ARISING IN CONTRACT (INCLUDING WARRANTY), TORT (INCLUDING ACTIVE, PASSIVE OR IMPUTED NEGLIGENCE AND STRICT LIABILITY AND FAULT) OR OTHER THEORY) WITH REGARD TO ANY PRODUCT WILL IN NO EVENT EXCEED THE PURCHASE PRICE PAID BY YOU FOR SUCH PRODUCT. THIS SHALL BE TRUE EVEN IN THE EVENT OF THE FAILURE OF ANY AGREED REMEDY. IN NO EVENT WILL WATCHGUARD BE LIABLE TO YOU OR ANY THIRD PARTY (WHETHER ARISING IN CONTRACT (INCLUDING WARRANTY), TORT (INCLUDING ACTIVE, PASSIVE OR IMPUTED NEGLIGENCE AND STRICT LIABILITY AND FAULT) OR OTHER THEORY) FOR COST OF COVER OR FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOSS OF PROFITS, BUSINESS, OR DATA) ARISING OUT OF OR IN CONNECTION WITH THIS WARRANTY OR THE USE OF OR INABILITY TO USE THE PRODUCT, EVEN IF WATCHGUARD HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. THIS SHALL BE TRUE EVEN IN THE EVENT OF THE FAILURE OF ANY AGREED REMEDY.

5. MISCELLANEOUS PROVISIONS. This Warranty will be governed by the laws of the state of Washington, U.S.A., without reference to its choice of law rules. The provisions of the 1980 United Nations Convention on Contracts for the International Sales of Goods, as amended, shall not apply. You agree not to directly or indirectly transfer the Product or associated documentation to any country to which such transfer would be prohibited by the U.S. Export laws and regulations. If any provision of this Warranty is found to be invalid or unenforceable, then the remainder shall have full force and effect and the invalid provision shall be modified or partially enforced to the maximum extent permitted by law to effectuate the purpose of this Warranty. This is the entire agreement between WatchGuard and you relating to the Product, and supersedes any prior purchase order, communications, advertising or representations concerning the Product AND BY USING THE PRODUCT YOU AGREE TO THESE TERMS. IF THE PRODUCT IS BEING USED BY AN ENTITY, THE INDIVIDUAL INDICATING AGREEMENT TO THESE TERMS BY USING THE PRODUCT REPRESENTS AND WARRANTS THAT (A) SUCH INDIVIDUAL IS DULY AUTHORIZED TO ACCEPT THE WARRANTY ON BEHALF OF THE ENTITY AND TO BIND THE ENTITY TO THE TERMS OF THIS WARRANTY; (B) THE ENTITY HAS THE FULL POWER, CORPORATE OR OTHERWISE, TO ENTER INTO THE WARRANTY AND PERFORM ITS OBLIGATIONS UNDER THE WARRANTY AND; (C) THE WARRANTY AND THE PERFORMANCE OF THE ENTITY'S OBLIGATIONS UNDER THE WARRANTY DO NOT VIOLATE ANY THIRD-PARTY AGREEMENT TO WHICH THE ENTITY IS A PARTY. No change or modification of the Warranty will be valid unless it is in writing and is signed by WatchGuard.

Declaration of Conformity

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):

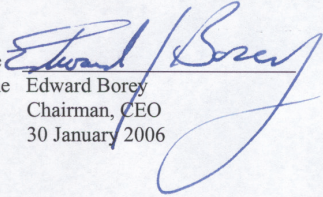
Internet Firewall and VPN (Encryption) Network Device, including Models T2BE8, T2BE4F4, T1AE8, T1AE4.

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 30 January 2006

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.

VCCI Notice Class A ITE

この装置は、情報処理装置等電波障害自主規制協議会 (VCCI) の基準に基づくクラス A 情報技術装置です。この装置を家庭用環境で使用すると電波妨害を引き起こすことがあります。この場合には使用者が適切な対策を講ずるよう要求されることがあります。

CAUTION: DANGER OF EXPLOSION IF BATTERY IS INCORRECTLY REPLACED. REPLACE ONLY WITH THE SAME OR EQUIVALENT TYPE RECOMMENDED BY THE MANUFACTURER. DISPOSE OF USED BATTERIES ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.

ATTENTION: IL Y A DANGER D'EXPLOSION S'IL Y A REMPLACEMENT INCORRECT DE LA BATTERIE, REMPLACER UNIQUEMENT AVEC UNE BATTERIE DU MÊME TYPE OU D'UN TYPE ÉQUIVALENT RECOMMANDÉ PAR LE CONSTRUCTEUR. METTRE AU REBUT LES BATTERIES USAGÉES CONFORMÉMENT AUX INSTRUCTIONS DU FABRICANT.

People's Republic of China Electronic Industry Standard

This table is presented in accordance with SJ/T11364-2006, Marking for Control of Pollution Caused by Electronic Information Products, implemented in November 2006.

有毒有害物质或元素名和含量						
部件名	有毒有害物质或元素					
	铅 (Pb)	汞 (Hg)	镉 (Cd)	铬 (CR(VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
英特尔® 赛扬® M 处理器 p/n RH80535NC013512	X	0	0	0	0	0
英特尔® 奔腾® M 处理器 p/n RH80536GE0412M	X	0	0	0	0	0
0: 表明部件中所有同类物质中的有毒有害物质或元素的含量不超出 《SJ/T11363-2006 电子信息产品中有毒有害物质的限量要求》规定的限量要求 X: 表明部件中至少一种同类物质中的有毒有害物质或元素的含量超出 《SJ/T11363-2006 电子信息产品中有毒有害物质的限量要求》规定的限量要求						

RoHS Statement

The member states of the European Union approved directive 2002/95/EC, Restrictions of Hazardous Substances (“RoHS directive”) that becomes valid on July 1, 2006. It states that all new electrical and electronic equipment put on the market within the member states must not contain certain hazardous materials. The WatchGuard Firebox X Edge e-Series will comply with the European Union’s R0HS directive 2002/95/EC and similar regulations that may be adopted by other countries for European Sales.

WEEE Statement

WEEE is a general set of requirements dictated in the EU Directive 2002/96/EC. This Directive mandated that member EU countries enact regulations governing the Waste of Electrical and Electronic Equipment (WEEE). The Directive, and its individual transpositions into specific country laws and legislation, is aimed at the reduction of WEEE through reuse, recovery, and recycling of WEEE.

WatchGuard is working in partnership with our European Union (EU) distribution partners to ensure that our products are in compliance with the WEEE statutes, and that the recovery of our product per the specific EU country legislative requirements is seamless for our product’s end users. If you have a WatchGuard product that is at its end of life and needs to be disposed of, please contact WatchGuard Customer Care Department at:

U.S. Customers: 877.232.3531

International Customers: +1.206.613.0456

WatchGuard is reasonably confident that our products do not contain any substances or hazardous materials presently banned by any legislation, and do not present a risk due to hazardous materials. WEEE recovery professionals should also note that these products do not have any materials that are of particular high value in their individual form.

Hardware Guide

The WatchGuard® Firebox® X line of security appliances deliver unparalleled unified threat management, superior performance, ease of use, and value for your growing network. Our security services give you fully integrated protection from spyware, spam, viruses, worms, trojans, web-based exploits, and blended threats. From firewall and VPN protection to secure remote access, WatchGuard Firebox X offers support for a broad range of network environments.

This guide introduces the Firebox X e-Series. The e-Series models are WatchGuard's first RoHS-compliant (lead-free) hardware products.

Firebox X Core

Our best-selling Firebox® X Core™ line of integrated security appliances gives the strongest protection available out of the box for businesses that must have integrated security, ease of use, and the capacity to extend and scale to meet growing needs.

Firebox X Core e-Series is available in models Firebox X550e, Firebox X750e, and Firebox X1250e.

Firebox X Peak

Our highest-performance line of integrated security appliances, Firebox® X Peak™ uses dynamic, multi-layered security to proactively protect your network. Capable of gigabit throughput, Firebox X Peak has the reliability, redundancy, traffic management, and port density that demanding, high-speed networks require.

Firebox X Peak e-Series is available in models Firebox X5500e, Firebox X6500e, Firebox X8500e, and Firebox X8500e-F. These new models give superior performance and improved scalability. Firebox X Peak is available with fiber optic interfaces on the X8500e-F model.

Fireware and Fireware Pro Operating Systems

Firebox® X Core™ e-Series and Firebox® X Peak™ e-Series devices support WatchGuard's next generation operating system, which comes in two versions—Fireware® and Fireware® Pro. Each version delivers exceptional protection against today's sophisticated threats and make sure that your business stays connected. Fireware Pro offers additional advanced networking capabilities. For more information on the differences between Fireware and Fireware Pro, see the *WatchGuard System Manager User Guide*.

Fireware Pro comes bundled with all Firebox X Peak appliances, and is available as an upgrade for Firebox X Core appliances.

Package Contents

The package contains this Hardware Guide on a CD-ROM and:

- Firebox® X Core™ or Firebox X Peak™ device
- Quick Start Guide
- Hardware warranty card
- LiveSecurity® Service license key certificate

- 1 straight-through Ethernet cable (green)
- 1 cross-over Ethernet cable (red)
- 1 serial cable (blue)
- 4 rubber pads for the bottom of the Firebox
- 1 rack-mounting kit

Hardware Specifications (Firebox X Core)

This table shows the hardware specifications for the Firebox® X Core™ e-Series models.

	X550e	X750e	X1250e
Processor	1.3 GHz Intel-based processor	1.3 GHz Intel-based processor	1.3 GHz Intel-based processor
Memory: Flash	128 Mbyte	128 Mbyte	128 Mbyte
Memory: RAM	512 Mbyte	512 Mbyte	512 Mbyte
Power supply	100-240 VAC Autosensing	100-240 VAC Autosensing	100-240 VAC Autosensing
Dimensions	D=14.0"(35.56 cm) W=16.75" (42.55 cm) H=1.75"(4.45 cm)	D=14.0" W=16.75" H=1.75"	D=14.0" W=16.75" H=1.75"
Weight	12.1 lbs (5.49 Kg)	12.1 lbs	12.1 lbs

Interface Specifications (Firebox X Core)

This table shows the interface specifications for the Firebox® X Core™ e-Series models.

Network interfaces X550e	4 x 10/100 Mbps Fast Ethernet auto-negotiate (half/full duplex) RJ-45
Network interfaces X750e, X1250e	8 x 10/100/1000 Gigabit Ethernet auto-negotiate (half/full duplex) RJ-45
Serial ports	1 DB9

Hardware Specifications (Firebox X Peak)

This table shows the hardware specifications for the Firebox® X Peak™ e-Series models.

	X5500e	X6500e	X8500e	X8500e-F
Processor	2.0 GHz Intel-based processor	2.0 GHz Intel-based processor	2.0 GHz Intel-based processor	2.0 GHz Intel-based processor
Memory: Flash	128 Mbyte	128 Mbyte	128 Mbyte	128 Mbyte
Memory: RAM	1 Gbyte	1 Gbyte	1 Gbyte	1 Gbyte
Power supply	100-240 VAC Autosensing	100-240 VAC Autosensing	100-240 VAC Autosensing	100-240 VAC Autosensing
Dimensions	D=14.0"(35.56 cm) W=16.75" (42.55 cm) H=1.75"(4.45 cm)	D=14.0" W=16.75" H=1.75"	D=14.0" W=16.75" H=1.75"	D=14.0" W=16.75" H=1.75"
Weight	12.3 lbs (5.58 Kg)	12.3 lbs	12.3 lbs	12.3 lbs

Interface Specifications (Firebox X Peak)

This table shows the interface specifications for the Firebox® X Peak™ e-Series models.

Network interfaces X5500e, X6500e, X8500e	8 x 10/100/1000 Gigabit Ethernet auto-negotiate (half/full duplex) RJ-45
Network interfaces X8500e-F	4 x 10/100/1000 Gigabit Ethernet auto-negotiate (half/full duplex) RJ-45 4 x 1000BaseSX Small Form Factor Pluggable (SPF) mini-GBIC, MMF LC-Duplex Connector, 850nm laser
Serial ports	1 DB9

Environmental Requirements

We recommend that you use these guidelines to install your Firebox® X Core™ or Firebox X Peak™ devices safely:

- Install in a network rack
- Put in a secure area, such as a locked room, to block the device from people who do not have permission to use it
- Connect to a conditioned power supply to prevent damage from sudden power changes

This table shows other environmental requirements for the two units.

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 G2 per Hz
Acoustic noise	40 dBA at 20° – 25°C
Operating mechanical shock	20.0 G with 11 Msec duration 1/2 sine wave

Hardware Description

This description applies to all Firebox® X Core™ and Firebox X Peak™ e-Series models except where noted.

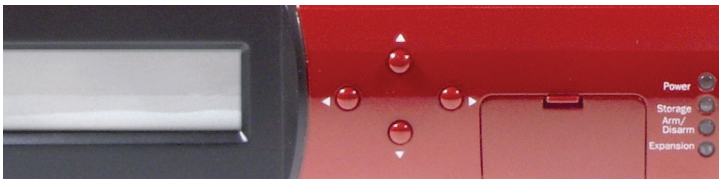
Front view

The photograph below shows the entire front of the Firebox.



Note: Firebox X Core model X550e and Firebox X Peak model X8500e-F are slightly different on the front, as described on page 16.

The photograph below shows a close-up of the left side of the Firebox. From the left, the indicators are:



LCD indicator panel

The LCD screen shows Firebox status information. Use the buttons to the right of it to change the information that appears, as described in “Using the LCD Interface” on page 17.

LCD console buttons

You use the LCD console buttons to see status information and start recovery procedures.

If you press and hold the Up button when you turn on the power, the Firebox boots into Safe Mode.

For detailed information on the LCD indicator panel and the LCD console buttons, see “Using the LCD Interface” on page 17.

Serial port (Console)

A DB9 connector for the serial port. This port has a cover that you must open to use the port.

Power

A yellow LED (light-emitting diode) shows that the power is on.

Storage

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

Arm/Disarm

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

Expansion

A green LED shows an upgrade module is installed in the expansion slot in the rear of the unit (described in “Rear view” on page 17). This is always off unless an upgrade is installed.

The photograph below shows a close-up of the right side of the Firebox. (Note: Firebox X Core model X550e and Firebox X Peak model X8500e-F are slightly different, as described on page 16.)

From the left, the indicators and connections are:



LED

The sets of LEDs are labeled 0, 1, 2, 3, and so on. They correspond to the interface ports to their right. The LEDs show the link and connection speed of the interface.

-
- When the interface operates at 10 Mbit, the top LED is green.
 - When the interface operates at 100 Mbit, the middle LED is green.
 - When the interface operates at 1000 Mbit, the bottom LED is green.
 - If you have a Firebox X Peak e-Series device with the Fiber interface enabled, the behavior of the LED lights is different. The LED labeled 10|LNK shows link status for the Fiber interface; the 100|TX LED shows transmission activity; and the 1000|RX LED shows activity related to received packets.

Interface ports

The interface ports have standard RJ45 connectors and are labeled 0, 1, 2, 3, and so on. The maximum speed for each interface depends on the Firebox X Core or Peak model you purchased.

The Firebox X Core model 550e has a total of four ports. All other Core and Peak models have eight ports.

The Firebox X Peak model 8500e-F has four fiber ports on the right. These ports appear in the photograph below.



Rear view

The rear view of the Firebox X has the AC receptacle, fans, and power switch.



Hard Disk Drive

Reserved for possible future use.

Expansion Slot

An upgrade expansion card can be installed in the future.

Fans

The three fans decrease the internal temperature of the Firebox.

Power Switch

Turns the Firebox on or off.

AC Receptacle

Accepts the detachable AC power cord supplied with the Firebox. The power supply for the Firebox is a WatchGuard standard auto-sensing AC power supply.

Using the LCD Interface

You can use the LCD interface and buttons for different operations.

The WatchGuard Firebox can operate in two modes:

Default Mode

The Firebox normal operating mode, with the Firebox booting from the Fireware operating system.

Safe Mode

A Firebox that boots from Safe Mode uses a fixed, baseline set of functionality kept on the read-only system area of the Firebox flash disk memory. Use Safe Mode only with the Quick Setup Wizard or the Web Quick Setup Wizard.

LCD keypad button control

There are four buttons to the right of the LCD display.

Left Button

This button is the “selection” button. It does the work of a computer mouse “left-click” button and lets you select from different options.

Right Button

Use this button to select fields in the LCD display. It does the work of the TAB key in a Windows dialog box.

Up Button

This button lets you increase the value of a selected item, or move up in a group of menu entries.

Down Button

This button lets you decrease the value of a selected item, or move down in a group of menu entries.

Using the LCD interface in Firebox Default Mode

Unless you are doing a recovery procedure, the Firebox boots automatically into its Default Mode. It uses the Fireware appliance software on the Firebox and operates with the rules set in the configuration file you have saved to the Firebox.

You can use the four-button keypad to see information about the Firebox, which appears in the LCD display. In Default Mode, use the buttons to move around a hierarchical “tree view”. Use the **Right** button to see information in a category, use the **Up** and **Down**

buttons to move up and down through the “tree”. Use any button to stop the auto-cycling on the LCD display.

The Default Mode shows:

Hardware Monitoring

Firebox serial number

CPU temperature

CPU temperature and the system temperature

CPU fan status

Case cooling fan speeds for three different fans in the Firebox

Voltage

CPU core voltage, the battery voltage, and the 3.3V power supply voltage

Configuration Information

IP addresses and subnet masks assigned to the each interface on the Firebox

Default gateway

Firebox Model Information

Appliance software type

Appliance software build number

Uptime

Time interval since the Firebox was last restarted

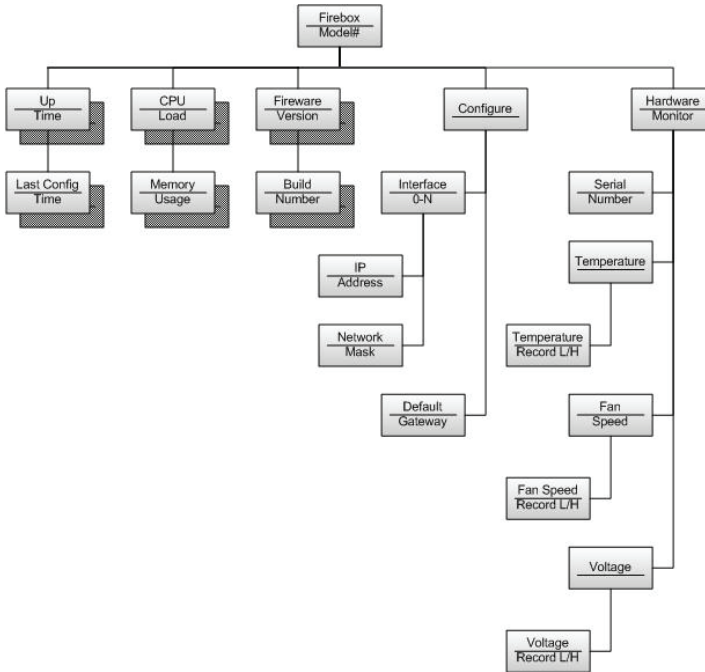
Time interval since the last time a configuration was saved to the Firebox

Load

Load average, showing the average system load for the past 1, 5, and 15 minutes

Memory usage

Current memory use on the Firebox.



LCD Interface Display Flowchart

Example

To see the CPU temperature of the Firebox from your LCD display, use the **Right** button to scroll through options until you see **Hardware Monitor**. Then, use the **Down** button to move into the “tree” view. Use the **Right** button to scroll through the Hardware Monitor entries until you find the CPU temperature. Use the **Up** button to return to the main category level.

Using the LCD interface in Firebox Safe Mode

In Safe Mode, you can get access to a Firebox when all access to the Firebox is lost. You can also use Safe Mode to reset Firebox passphrases when you do not know or have forgotten them. To recover the Firebox while started from Safe Mode, you must use the Quick Setup Wizard or the Web Quick Setup Wizard.

To put a Firebox into Safe Mode using the LCD display

- 1 Turn off the Firebox using the power switch on the back of the Firebox.
- 2 Push the **Up** arrow on the keypad. Press the button while you turn the Firebox on and until you see a message "Memory Test Pass."

The Firebox boots into Safe Mode.

