

WatchGuard® SSL 100 Hardware Guide

WatchGuard SSL 100



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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):

SSL VPN (Encryption) Network Device, including Models T2BE8, T2BE4F4, T2BE4, T1AE8, T1AE4.

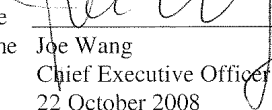
EU Directive(s):

Low Voltage (2006/95/EC)
Electromagnetic Compatibility (2004/108/EC)

Standard(s):

EN60950-1:2001 Safety of ITE (valid until: 2010 12 01)

EN550022:2006	Class A Emissions for ITE
EN61000-3-2:2000 W/A2:05	Harmonics
EN61000-3-3:1995 W/A1:01	Flicker
EN550024:1998 W/A1:01 & A2:03	Immunity for ITE

Signature 
Full Name Joe Wang
Position Chief Executive Officer
Date 22 October 2008

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

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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• SSL device will comply with the European Union's RoHS 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• SSL 100 delivers dependable, universal network access, strong administrative control, flexible, extensible authentication, and value for your growing network. Our powerful solution provides robust security from the end user to the network, for managed and unmanaged devices.

This guide introduces the WatchGuard SSL 100 model. This model is the latest in the line of WatchGuard's RoHS-compliant (lead-free) hardware products.

The WatchGuard SSL 100 gives strong protection 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.

Package Contents

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

- WatchGuard• SSL 100 appliance
- Quick Start Guide

- Hardware warranty card
- LiveSecurity Service license key certificate
- 2 straight-through Ethernet cables (green)
- 1 serial cable (blue)
- AC Power Cord
- 4 rubber pads for the bottom of the device
- 1 rack-mounting kit

Hardware Specifications

This table shows the hardware specifications for the WatchGuard[®] SSL 100 appliance.

	SSL 100
Processor	1.3 GHz Intel-based processor
Memory: Flash	256 Mbyte
Memory: RAM	2 Gbyte
Hard Drive	80 Gbyte
Power supply	100-240 VAC Autosensing
Dimensions	D=14.0"(35.56 cm) W=16.75" (42.55 cm) H=1.75"(4.45 cm)
Weight	12.2 lbs (5.52 Kg)

Interface Specifications

This table shows the interface specifications for the WatchGuard[®] SSL 100 appliance.

	SSL 100
Network interfaces	4 x 10/100/1000 Gigabit Ethernet auto-negotiate (half/full duplex) RJ-45
Serial ports	1 DB9

Environmental Requirements

We recommend that you use these guidelines to install your WatchGuard• SSL 100 appliance 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.

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	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 the WatchGuard[®] SSL 100 model.

Front view

The photograph below shows the entire front of the device.



The photograph below shows a close-up of the left side of the device. From the left:



LCD indicator panel and console buttons

The LCD screen shows device status information.

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 device boots into Recovery Mode.

For detailed information on the LCD indicator panel and the LCD console buttons, see "Using the LCD Interface" on page 6.

Serial port (Console)

DB9 connector for the serial port. Reserved for future use.

Power

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

Storage

A green LED indicates that the device is writing to or reading the hard drive.

Status

The status LED changes colors to indicate the current device mode: red for Recovery Mode and green for Default Mode.

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 6). This is always off unless an upgrade is installed.

The photograph below shows a close-up of the ports and port indicators. From the left:

**Interface LEDs**

The sets of LEDs are labeled 0, 1, 2, and 3. 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.

Interface ports

The interface ports have standard RJ45 connectors and are labeled 0, 1, 2, and 3. Only interface ports 0 and 1 are active.

Rear view

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



Hard Disk Drive

The hard drive contains the WatchGuard SSL operating system and database installation.

Expansion Slot

Reserved for future use.

Fans

The three fans decrease the internal temperature of the device.

Power Switch

Turns the device on or off.

AC Receptacle

Accepts the detachable AC power cord supplied with the device. The power supply for the device 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 SSL device can operate in two modes:

Default Mode

The normal operating mode. If necessary, you can reset your device to its factory-default settings from default mode. Connect to the WatchGuard SSL Web UI and select **Manage System > Device Update**. Click **Restore factory defaults**. You can now use the instructions in the product documentation or the *Quick Start Guide* to start the Quick Setup Wizard and re-configure the device.

Recovery Mode

Recovery Mode puts your WatchGuard SSL device in a state where you can upload a new WG SSL OS image. Use Recovery Mode only when it is impossible to connect to the device to update it with the user interface.

To put your device into Recovery Mode, press and hold the up arrow on the front panel during device bootup. Keep the button depressed until you see the words "Executing SysB." While in Recovery Mode, you can use FTP to upload a new version of WG SSL OS directly to the device. For complete instructions on how to put a WatchGuard SSL device into Recovery Mode, see the WatchGuard SSL 100 product documentation.

LCD keypad button control

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

Left Button

This button is the "selection" button. It scrolls through the menu options to the left and lets you select from different options.

Right Button

This button is also a "selection" button. It scrolls through the menu options to the right and lets you select from different options.

Up Button

This button lets you move up in a group of menu entries.

Down Button

This button lets you move down in a group of menu entries.

Using the LCD interface in Default Mode

Unless you specifically put your WatchGuard SSL device in Recovery Mode, it automatically boots into Default Mode. It uses the device software to operate.

You can use the four-button keypad to see information about the SSL device on the LCD display. In Default Mode, press the buttons to move around the device menu. Use the **Left** and **Right** buttons to move through the list of categories. To see information in a category, use the **Up** and **Down** buttons to move up and down through the menu.

Default Mode shows:

Hardware Monitoring

SSL device serial number**CPU temperature**

CPU temperature and the system temperature

CPU fan status

Case cooling fan speeds for the three device different fans

Voltage

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

Uptime

Time interval since the device was last restarted

Load

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

Memory usage

Current memory used on the device.

Example

To see the CPU temperature of the device from your LCD display, press the **Left** or **Right** button to scroll through options until you see **Hardware Monitor**. Then, press the **Down** button to move into the menu. Press the **Left** or **Right** button to scroll through the Hardware Monitor entries until you find the CPU temperature. Press the **Up** button to return to the main category level.
