

WatchGuard® SSL 500
WatchGuard® SSL 1000
Hardware Guide

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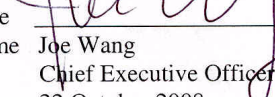
EU Directive(s):

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

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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 series 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 line of security devices deliver 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. WatchGuard SSL offers the broadest range of mobile device and platform support in its class.

This guide introduces the WatchGuard SSL 500 and SSL 1000 models. These models are the latest in the line of WatchGuard's RoHS-compliant (lead-free) hardware products.

The WatchGuard SSL 500 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.

The WatchGuard SSL 1000 includes the same capabilities as the WatchGuard SSL 500. Additionally, it gives superior performance, improved scalability, and more simultaneous connections.

Package Contents

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

- WatchGuard• SSL 500 or WatchGuard SSL1000 device
- Setup 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 500 and SSL 1000 appliances.

	SSL 500	SSL 1000
Processor	1.3 GHz Intel-based processor	2.0 GHz Intel-based processor
Memory: Flash	256 Mbyte	256 Mbyte
Memory: RAM	512 Mbyte	1 Gbyte
Power supply	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"(35.56 cm)) W=16.75" (42.55 cm) H=1.75"(4.45 cm)
Weight	12.4 lbs (5.58 Kg)	12.4 lbs (5.58 Kg)

Interface Specifications

This table shows the interface specifications for the WatchGuard• SSL 500 and SSL 1000 appliances.

	SSL 500	SSL 1000
Network interfaces	4 x 10/100 Mbps Fast Ethernet auto-negotiate (half/full duplex) RJ-45	4 x 10/100/1000 Gigabit Ethernet auto-negotiate (half/full duplex) RJ-45
Serial ports	1 DB9	1 DB9

Environmental Requirements

We recommend that you use these guidelines to install your WatchGuard• SSL 500 or WatchGuard SSL 1000 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 WatchGuard® SSL 500 and WatchGuard SSL 1000 models.

Front view

The photograph below shows the entire front of the devices.



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 Safe Mode.

For detailed information on the LCD indicator panel and the LCD console buttons, see “Using the LCD Interface” on page 7.

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 from the compact flash card of the hard drive disk (if installed).

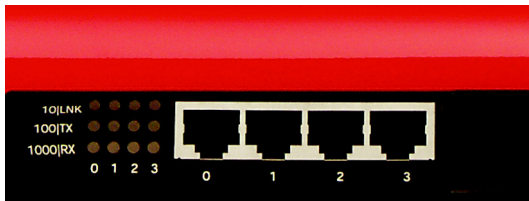
Status

The status LED changes colors to indicate the current device mode: red for Safe 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:

**Port 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. (This applies to SSL 1000 only.)

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

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 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. The device boots from the appliance software.

Safe Mode

Safe Mode returns your SSL device to the factory default settings.

To put your device into safe 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 Safe Mode, the device completes system tests and restores the default settings.

After the restore process is complete (about 60 seconds), the device automatically returns to Default Mode. To return to Default Mode sooner, manually power off and reboot the device.

You can then change the default device settings using the WatchGuard SSL Web Manager.

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 Safe 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.
