



# WatchGuard® XCS

## Hardware Guide

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XCS 970, 1170

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Printed in the United States of America.

Part Number: 275-3728-001

Document Version: 1.3

Revised: 12/14/09

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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:

This device may not cause harmful interference.

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## CE Notice

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## Industry Canada

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

**Management Methods on Control of Pollution From Electronic Information Products  
(China RoHS declaration)  
產品中有毒有害物質的名稱及含量  
Hazardous Substances Table**

部件名稱 Parts	有毒有害物質或元素(Hazardous Substance)					
	鉛 (Pb)	汞 (Hg)	鎘 (Cd)	六價鉻 (Cr6+)	多溴聯苯 (PBB)	多溴二苯 醚(PBDE)
板金件(Metal)	O	O	O	O	O	O
PCBA 板(PCBA Component)	X	O	O	O	O	O
開關電源(Power supply)	X	O	O	O	O	O
微處理器(CPU)	O	O	O	O	O	O
記憶模組(RAM Module)	X	O	O	O	O	O
風扇(Fan)	X	O	O	O	O	O

○：表示該有毒有害物質在該部件所有均質材料中的含量均在 SJ/T 11363-2006 標準規定的限量要求以下。  
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The member states of the European Union approved directive 2002/95/EC, Restrictions of Hazardous Substances ("RoHS directive") that became 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 XCS complies with the European Union's R0HS directive 2002/95/EC and similar regulations that may be adopted by other countries for European Sales.

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## WEEE Statement

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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.

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WatchGuard supports the overall REACH objective of improving the protection of human health and the environment and will meet all applicable REACH requirements. WatchGuard is strongly committed to working with our customers and supply chain to define and implement the REACH requirements and ensure a smooth transition to compliance.

One of the REACH requirements is that manufacturers and importers have the duty to register substances they are producing or importing. In accordance with the regulations, the products of WatchGuard do not need to be registered for the following reasons:

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2. WatchGuard products are non-chemical products that are not designed to release any substance under normal and reasonably predictable application.
3. Our products do not contain the listed substances at more than 0.1% by weight of the whole product/part.



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# Hardware Specifications

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The WatchGuard® XCS (Extensible Content Security) appliance is an easy-to-use, all-inclusive email and web system that provides security and privacy of inbound and outbound traffic. It is the first product that provides correlated content security and threat prevention with consolidated administration and reporting across multiple protocols. The WatchGuard XCS provides content security that enables data loss prevention, encryption and content filtering with integrated threat prevention for viruses, spam, spyware, phishing, and malware attacks, all in a secured appliance.

## Secure operating system

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The WatchGuard XCS delivers the most complete security available for messaging systems. The system runs on a customized secure operating system that does not allow uncontrolled access to the system. There is no command line access and the WatchGuard XCS runs as a closed system, preventing accidental or deliberate misconfiguration by administrators which is a common cause of security vulnerabilities.

## Package contents

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- XCS appliance
- Product Documentation CD-ROM
- Quick Start Guide
- Hardware warranty card and LiveSecurity® Service activation card
- Power cords
- Rack mount kit

## About your hardware

### Hardware specifications

	XCS 970	XCS 1170
<b>Processor</b>	2.26 GHz Intel Quad Core E5520	2 x 2.26 GHz Intel Quad Core E5520
<b>Memory</b>	4 GB (2 x 2 GB) DDR3 1066MHz	4 GB (2 x 2 GB) DDR3 1066MHz
<b>Hard Drives</b>	2 x 160 GB SATA II	4 x 146GB 15K SAS
<b>Power supply</b>	Universal 1+1 Redundant Power Supply 650W	Universal 1+1 Redundant Power Supply 650W
<b>Network Interfaces</b>	2 x Intel 82563EB GB (Onboard) 2 x Intel 82563EB GB	2 x Intel 82563EB GB (Onboard) 2 x Intel 82563EB GB
<b>USB Ports</b>	2 x USB ports	2 x USB ports
<b>I/O Interfaces</b>	2 x PCI Express X8 1 x PCI-X 1 x SATA 1 x IDE 1 x PS2 mouse 1 x PS2 keyboard 1 x VGA connector 1 x 16550 Serial Port	2 x PCI Express X8 1 x PCI-X 1 x SATA 1 x IDE 1 x PS2 mouse 1 x PS2 keyboard 1 x VGA connector 1 x 16550 Serial Port
<b>Dimensions</b>	D=25.6" (65 cm) W=17.2" (43.7 cm) H=1.7" (4.3 cm)	D=25.6" (65 cm) W=17.2" (43.7 cm) H=1.7" (4.3 cm)
<b>Weight</b>	42 lbs (19.05 Kg)	42 lbs (19.05 Kg)

## Environmental requirements

To safely install your XCS device, we recommend that you:

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

Other environmental requirements for the WatchGuard XCS device:

Operating temperature	0 – 45°C (32 – 113°F)
Operating relative humidity	10% - 85% Non-condensing
Non-operating temperature	-40 – 70°C (-40 – 158°F)
Non-operating relative humidity	10% – 95% Non-condensing



## Hardware description

### Front view

The front of the device.



This is a close-up of the front right side of the device.



#### UID (Unit identifier) button

Depressing the UID button illuminates an LED on both the front and rear of the system chassis for easy system identification in large stack configurations. The LED will remain on until the button is pushed a second time. Another UID button on the rear of the chassis serves the same function.

#### Universal information indicator

When the light blinks red quickly, it indicates a failed cooling fan, and when blinking red slowly, it indicates a power failure. See the following table for the status of each type of indicator state.

Indicator state	Status
Fast blinking red (1x sec)	Fan fail
Solid Red	CPU overheat
Slow Blinking Red	Power fail
Solid Blue	Local UID (Unit identifier) button depressed
Blinking Blue	IPMI-Activated UID

#### Network interface activity (NIC2)

The network interface activity lights flash when there is network activity detected on the second onboard network interface.

#### Network interface activity (NIC1)

The network interface activity lights flash when there is network activity detected on the first onboard network interface.

### Hard disk activity

The hard disk activity light indicates disk drive activity when flashing.

### Power indicator

Indicates power is being supplied to the system's power supply units when the system is operating.

### Reset button

Press the reset button to reboot the device. Make sure your operating system is properly shutdown before using the reset button to reboot your device.

### Power button

Press the power button to turn on and off the device. Make sure your operating system is properly shutdown before using the power button to power off your device.

## Hard drive carriers

This is a close-up of the front left side of the device.



### Hard drive carriers

Each hard drive carrier has two indicators:

- **Green:** When illuminated, the green light on the front of the drive carrier indicates drive activity.
- **Red:** The red light, when blinking, indicates the drive is rebuilding. When the red light is solid, it indicates a drive failure.

To remove a hard drive carrier:

- Push the release button beside the hard drive indicators.
- Swing the colored handle fully out and use it to pull the hard drive carrier straight out.

## Rear view

This is a close-up of the rear side of the device.



### Power supply fans

The fan decreases the internal temperature of the device.

### AC receptacles

Accepts a detachable AC power cord supplied with the device.



### Caution

You must always disconnect the power cord before you remove the cover of the XCS device.

### PS/2 ports

There is a PS/2 port available to attach a keyboard for use with the XCS system console. The other port is reserved for future use.

### USB interfaces

There are two USB interfaces that support additional peripherals such as a USB keyboard (for use with the XCS system console), and a USB DVD/CD-ROM drive.

### Serial port

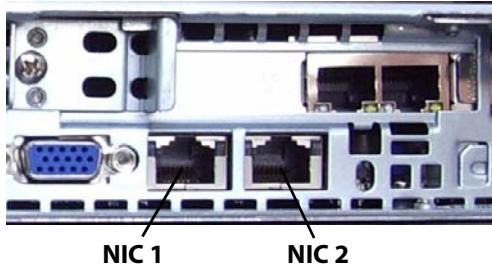
A DB9 connector for the serial port (COM1). This port can be used to attach a UPS (Uninterruptible Power Supply). The serial port can also be used to access the serial console if you do not have access to a monitor and keyboard.

### VGA video interface (console)

A VGA video connector for attaching a monitor to view the XCS system console screen.

## Network interfaces

This is a close-up of the network interfaces on the rear side of the device.



### Onboard network interfaces

The XCS device has two onboard network interfaces, NIC 1 (left network interface) and NIC 2 (right network interface). The network interfaces have standard RJ45 connectors.

### Additional network interfaces

The XCS device includes two additional network interfaces in the system expansion slot.

### Indicators for network interfaces

On each network interface there is a pair of indicators. The left indicator is the activity indicator for the interface. The right indicator shows the connection speed for the interface.

Indicator	Indicator color	Interface Status
<b>Activity (left)</b>	Yellow	Power on, connection established
	Not lit	Power off, no connections
	Blinks (speed of blink increases as the data flow increases)	Data sent and received
<b>Connection Speed (right)</b>	Not lit	Operates at 10 Mbps
	Green	Operates at 100 Mbps
	Yellow	Operates at 1000 Mbps

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## Rack mount instructions

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The WatchGuard XCS 970 and 1170 models are shipped with a rack mount kit and a set of installation instructions. When you install the XCS device in a rack, make sure you consider:

**Elevated operating ambient temperature**

If you install the XCS device in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment could be greater than the ambient temperature of the room. The XCS device is certified to operate correctly between 32–113°F (0–45°C).

**Reduced air flow**

When you install the XCS device in a rack, make sure that the amount of air flow required for safe operation of the equipment is not compromised.

**Mechanical loading**

When you mount the XCS device in the rack, avoid hazardous conditions caused by uneven mechanical loading.

**Circuit overloading**

Make sure you connect the XCS device to the power supply circuit to make sure there is no overloading of the circuits, and no impact on overcurrent protection and supply wiring.

**Reliable grounding**

Make sure all rack-mounted equipment is correctly grounded. For example, use power strips instead of direct connections to the branch circuit.