



# WatchGuard® XCS

## Hardware Guide

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XCS 170, 370, 570, 770, 770R

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WatchGuard offers affordable, all-in-one network and content security solutions that provide defense-in-depth and help meet regulatory compliance requirements. The WatchGuard XTM line combines firewall, VPN, GAV, IPS, spam blocking and URL filtering to protect your network from spam, viruses, malware, and intrusions. The new XCS line offers email and web content security combined with data loss prevention. WatchGuard extensible solutions scale to offer right-sized security ranging from small businesses to enterprises with 10,000+ employees. WatchGuard builds simple, reliable, and robust security appliances featuring fast implementation and comprehensive management and reporting tools. Enterprises throughout the world rely on our signature red boxes to maximize security without sacrificing efficiency and productivity.

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[www.watchguard.com/products/resources/conformity-regulatory.asp](http://www.watchguard.com/products/resources/conformity-regulatory.asp)

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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.

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

## CE Notice

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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

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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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**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)	○	○	○	○	○	○
PCBA 板(PCBA Component)	X	○	○	○	○	○
開關電源(Power supply)	X	○	○	○	○	○
微處理器(CPU)	○	○	○	○	○	○
記憶模組(RAM Module)	X	○	○	○	○	○
風扇(Fan)	X	○	○	○	○	○

○：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。  
○：Indicates that this hazardous substance contained in all homogeneous materials of this part is below the limit requirement in SJ/T 11363-2006.  
x：表示該有毒有害物質至少在該部件的某一均質材料中的含量超出 SJ/T 11363-2006 標準規定的限量要求。  
x：Indicates that this hazardous substance contained in at least one of the homogeneous materials of this part is above the limit requirement in SJ/T 11363-2006.  
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This table shows where these substances may be found in the supply chain of our electronic information products, as of the date of sale of the enclosed product.  
Note that some of the component types listed above may or may not be a part of the enclosed product.

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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 RoHS directive 2002/95/EC and similar regulations that may be adopted by other countries for European Sales.

## WEEE Statement

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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.

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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.

## REACH Certificate of Compliance

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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 appliance 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 appliance 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 cord
- Rack mount kit (770R only)

# About Your Hardware

## Hardware Specifications

	<b>XCS 170</b>	<b>XCS 370</b>	<b>XCS 570</b>	<b>XCS 770</b>	<b>XCS 770R</b>
<b>Processor</b>	1.6GHz Dual Core Intel Celeron E1200	1.6GHz Dual Core Intel Celeron E1200	2.2Ghz Dual Core Intel Celeron E1500	2.4 GHz Intel Xeon Quad Core X3220	2.53 GHz Intel Xeon Quad Core X3440
<b>Memory</b>	2 GB (2 x 1 GB) DDR2 667MHz	2 GB (1 x 2 GB) DDR2 667MHz	4 GB (2 x 2 GB) DDR2 667MHz	4 GB (2 x 2 GB) DDR2 667MHz	4 GB (2 x 2 GB) DDR3 1066MHz
<b>Hard Drives</b>	160 GB SATA	160 GB SATA	160 GB SATA	160 GB SATA	2 x 500 GB SATA II RAID 1
<b>Power supply</b>	Universal Power Supply 200W	Universal Power Supply 200W	Universal Power Supply 200W	Universal Power Supply 200W	Universal Power Supply 600W
<b>Network Interfaces</b>	2 x Intel 82576 GB (Onboard)	2 x Intel 82576 GB (Onboard)	2 x Intel 82576 GB (Onboard) 1x Intel 82576 GB	2 x Intel 82576 GB (Onboard) 1 x Intel 82576 GB	4 x Intel 82576 GB (Onboard)
<b>USB Ports</b>	2 x USB ports	2 x USB ports	2 x USB ports	2 x USB ports	2 x USB ports
<b>I/O Interfaces</b>	1 x PCI 1 x SATA 1 x IDE 1 x PS2 mouse 1 x PS2 keyboard 1 x VGA connector 1 X 16550 Serial Port	1 x PCI 1 x SATA 1 x IDE 1 x PS2 mouse 1 x PS2 keyboard 1 x VGA connector 1 X 16550 Serial Port	1 x PCI 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	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=14" (35.6 cm) W=16.8" (42.7 cm) H=1.7" (4.3 cm)	D=14" (35.6 cm) W=16.8" (42.7 cm) H=1.7" (4.3 cm)	D=14" (35.6 cm) W=16.8" (42.7 cm) H=1.7" (4.3 cm)	D=14" (35.6 cm) W=16.8" (42.7 cm) H=1.7" (4.3 cm)	D=17.2" (43.7 cm) W=19.9" (50.5 cm) H=1.7" (4.3 cm)
<b>Weight</b>	17 lbs (7.71 kg)	17 lbs (7.71 kg)	17 lbs (7.71 kg)	17 lbs (7.71 kg)	30 lbs (13.6 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) 10 – 35°C (50 – 95°F) for 770R
Operating relative humidity	10% - 85% Non-condensing 8% - 90% Non-condensing for 770R
Non-operating temperature	–40 – 70°C (–40 – 158°F)
Non-operating relative humidity	5% – 95% Non-condensing

# Hardware Description

## Front View

The front of the XCS device (170, 370, 570, 770).



The front of the XCS 770R device.



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



### Overheat/Fan Fail Indicator

When this indicator flashes, a fan failure has occurred. When the indicator is continuously lit, the device has overheated. This could be caused by obstructed air flows or a room temperature that is too high. If this indicator flashes or stays lit, make sure that:

- All fan operation is normal
- Fan air flow is not obstructed by the cables
- The chassis covers and heat sinks are installed correctly

The indicator returns to normal when the failure or overheat condition is resolved.

### Network Interface Activity (NIC2)

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

### Network Interface Activity (NIC1)

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

**Hard Disk Activity** 

The hard disk activity indicator flashes when the disk drive is active.

**Power Indicator** 

The power indicator lights when power is supplied to the device and the device is operational.

**Reset Button** 

Press the reset button to reboot the device. Before you press the reset button, make sure your operating system is correctly shut down.

**Power Button** 

Press the power button to power on and off the device. Before you power off your device, make sure your operating system is correctly shut down.

## Hard Drive Carriers (XCS 770R)

This is a close-up of the left side of the front of the XCS 770R 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:** When the red light blinks, this 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 of the device.



### Power Supply Fan

The fans decrease the internal temperature of the device.

### AC Receptacle

Accepts a detachable AC power cord supplied with the device.



### Caution

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You must disconnect the power supply before you remove the cover of the XCS device. If you open the cover without prior authorization from WatchGuard, the Hardware Warranty is voided.

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### PS/2 Ports

One PS/2 port is available to connect a keyboard for use with the XCS device console. The other port is reserved for future use.

### USB Interfaces

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

### Serial Port

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

### VGA Video Interface (Console)

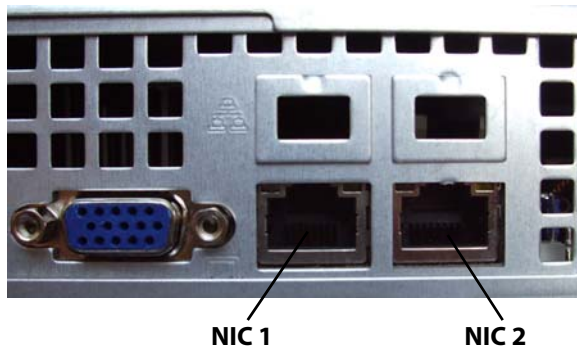
You can use the VGA video connector to connect a monitor and view the XCS device console screen.

## Network Interfaces

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

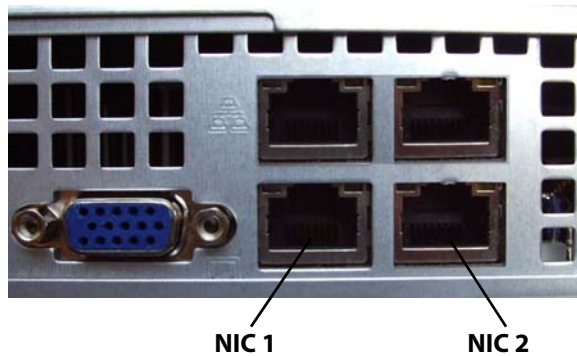
### Onboard Network Interfaces (170, 370, 570, 770)

The XCS device (170, 370, 570, 770) has two onboard network interfaces, NIC 1 (left network interface) and NIC 2 (right network interface). The XCS 570 and 770 models include a third network interface in the system expansion slot. The network interfaces have standard RJ45 connectors.



### Onboard Network Interfaces (770R)

The XCS 770R device has four onboard network interfaces. NIC 1 is the lower left network interface, and NIC 2 is the lower right network interface.



### Network Interface Indicators

Each network interface has 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 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

## Rack Mount Instructions

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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 an uneven mechanical load.

**Circuit Overloading**

Make sure you connect the XCS device to the power supply circuit in such a way that no circuits are overloaded and there is 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.