



# **WatchGuard XTM 2-Series**

## **Hardware Guide**

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XTM 21, 22, 23, 21-W, 22-W, 23-W

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**WatchGuard Technologies, Inc.**  
505 Fifth Ave. S., Suite 500  
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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):**

Wireless Internet Firewall with VPN, Models XP3E6W, XP3E6

**EU Directive(s):**

Radio & Telecommunications Terminal Equipment (1999/5/EC)  
Low Voltage (2006/95/EC)  
Electromagnetic Compatibility (2004/108/EC)

**Common Standard(s):**

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

EN50022:2006	Class A Emissions for ITE
EN61000-3-2:2000 W/A2:05	Harmonics
EN61000-3-3:1995 W/A1:01	Flicker
EN50024:1998 W/A1:01 & A2:03	Immunity for ITE

**Wireless Standard(s):**

ETSI EN 300 328-02 V1.4.1 (2003-04) EMC and Radio Spectrum Matters  
ETSI EN 301 489-17 V1.1.1 (2000-09) EMC and Radio Spectrum Matters  
ETSI EN 301 489-01 V1.6.1 (2005-09) EMC and Radio Spectrum Matters  
ETSI EN 301 893 V1.4.1 (2007-07) Broadband Radio Access Networks

Signature \_\_\_\_\_ PENDING \_\_\_\_\_  
Full Name Joe Wang  
Position Chief Executive Officer  
Date 16 December 2008

## FCC Certification

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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.

NOTE: The antennas used for this transmitter must be installed to provide a separation distance of at least 20cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.



### Caution

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Changes or modifications to ANY PART OF THIS PRODUCT not expressly approved by WatchGuard could void the user's authority to operate the equipment per FCC regulations. In particular, modifying antenna gain to exceed 2.0 dBi voids the FCC certification.

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## 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.

## CANADA RSS-210

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The term "IC:" before the radio certification number only signifies that Industry of Canada technical specifications were met.

Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

This device has been designed to operate with the antennas listed below, and having a maximum gain of 2.0 dBi. Antennas not included in this list or having a gain greater than 2.0 dBi are strictly prohibited for use with this device. The required antenna impedance is 50 ohms.

WGRD P/N 155-3329-001 or any antenna with 2.0dBi or lower gain

To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that permitted for successful communication.

Frequency band from 5.15 GHz to 5.25 GHz is restricted to indoor use only to reduce potential for harmful interference to co-channel mobile satellite systems. The maximum antenna gain permitted on devices in the 5725 – 5825 MHz band complies with the EIRP limits specified for point-to-point and non point-to-point operation as appropriate, as stated in section A9.2(3).

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## VCCI Notice Class A ITE

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## France

En France, ce produit ne peut être installé et opéré qu'à l'intérieur, et seulement sur les canaux 10, 11, 12, 13 comme défini par IEEE 802.11g/b. L'utilisation de ce produit à l'extérieur ou sur n'importe quel autre canal est illégal en France.

In France, this product may only be installed and operated indoors, and only on channels 10, 11, 12, 13 as defined by IEEE 802.11g/b. Use of the product outdoors, or on any other channel, is illegal in France.

## RoHS Statement

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 XTM 2-Series complies with the European Union's ROHS 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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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:

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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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## REACH Certificate of Compliance

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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:

1. WatchGuard does not import more than 1 metric ton per year of a substance as defined by REACH.
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® XTM 2-Series security appliances deliver unparalleled unified threat management, superior performance, ease of use, and value for your small organization or branch office. Our security subscriptions 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 XTM 2-Series offers support for a broad range of network environments.

This guide introduces the XTM 2-Series, a series of RoHS-compliant (lead-free) hardware products offered by WatchGuard.

## XTM 2-Series

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The WatchGuard® XTM 2-Series is a network security device for small organizations and branch offices.

The XTM 2-Series product line includes:

- WatchGuard XTM 2-Series
- WatchGuard XTM 2-Series wireless

You can upgrade an XTM 2-Series or XTM 2-Series wireless device to a higher model in the XTM 2-Series line for more capacity and performance with a simple software license key.

## Fireware XTM OS

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The XTM 2-Series devices support WatchGuard's next generation UTM OS—Fireware® XTM. Each XTM 2-Series device includes Fireware XTM and delivers exceptional protection against today's sophisticated threats to make sure that your business stays connected. For more information on the features of Fireware XTM OS, see the current Fireware XTM help system.

## Package Contents

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

- XTM 2-Series appliance
- Quick Start Guide
- Hardware warranty card
- AC adapter (12V/2A) with international plug kit
- Power cable clip, to attach to the cable and connect to the the device. This decreases the tension on the power cable.
- 4 rubber pads for the bottom of the device.
- 1 straight-through Ethernet cable
- 1 Wall mount plate (wireless models only)
- Three antennas (wireless models only)

## About Your Hardware

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### Hardware specifications

	<b>XTM 2-Series</b>	<b>XTM 2-Series Wireless</b>
<b>Power supply</b>	12V/2A	12V/2A
<b>Dimensions</b>	D = 156mm (6.13") W = 163mm (7.4") H = 32mm (1.25")	D = 203mm (8.0") W = 273mm (10.75") H = 32mm (1.25") Antenna height = 127mm (5.0")
<b>Weight</b>	1.9 U.S. pounds	2.0 U.S. pounds

### Interface Specifications

<b>Network interfaces</b>	<ul style="list-style-type: none"><li>• 3x GbE Copper RJ45, 1000Base-T, 100Base-TX, or 10 Base-T (10/ 100/ 1000Mbps)</li><li>• 3x 10/100 Mbps</li></ul>
<b>I/O interfaces</b>	<ul style="list-style-type: none"><li>• 2 USB</li></ul>



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## Environmental Requirements

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We recommend that you use these guidelines to install your XTM 2-Series devices safely:

- Install it indoors.
- Put it in a secure area, such as a locked room, to block 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 XTM 2-Series units.

Operating temperature	0 – 40°C (32 – 104°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
MTBF for XTM 2-series devices (wired and wireless)	59,866 hours @ 25 degrees C

# Hardware Description

All indicator lights are on the front panel of the device, and all ports and connectors are on the rear panel.

## Front view

The front panel of the device.



### Fail Over

The Fail Over indicator is green when there is a WAN failover from the primary external interface to the backup interface. After the external interface connection fails back to the primary external interface the indicator is not lit.

### WAP

The WAP indicator is green when an XTM 2-Series wireless device is activated as a wireless access point. The light is green when traffic goes through the wireless interface.

### Network interface status indicators

The status indicators for the six network interfaces are labeled 5, 4, 3, 2, 1, 0. There are two status indicators for each interface.

Indicator	Indicator color	Interface Status
<b>Link</b>	Green	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>100/1000</b>	Not lit	Operates at 10 Mbps
	Green	Operates at 100 Mbps
	Yellow	Operates at 1000 Mbps

### Status

The Status indicator shows when there is a management connection to the device. When you use your browser to connect to the Fireware XTM Web UI, the indicator is lit. The Status indicator is unlit a short time after you log out of the Fireware XTM Web UI or close your browser.

### Mode

The mode indicator shows the status of the external network connection. If the device can connect to the external network and send traffic, the indicator is green. The indicator flashes if the device cannot connect to the external network and send traffic.

### Attn

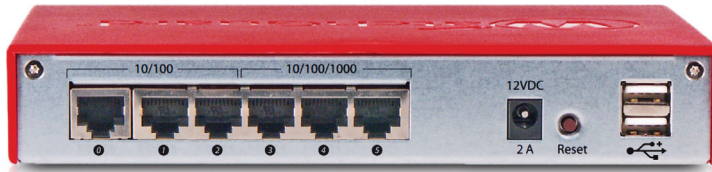
The Attn indicator is lit when you reset the device to factory default settings.

### Power (⏻)

The power indicator is lit when the device is on.

## Rear view

Rear view of the device.



### Network interfaces

The interfaces have standard RJ45 connectors and are labeled 0, 1, 2, 3, 4, 5, 6.

- Interfaces 0, 1, and 2 can operate at 10 or 100 Mbps.
- Interfaces 3, 4, and 5 can operate at 10, 100, or 1000 Mbps.

### Antenna (wireless models only)

The back of the XTM 2-Series Wireless has a wireless antenna.

### Power input

A 12V/2A power supply is included with your device. Connect the AC adapter to the device and to a power source. The power supply tip is plus (+) polarity.

### RESET button

To reset the device, use the procedure in “Restore Factory Default Settings” on page 10.

### USB interfaces

The two USB interfaces are for connections to a modem used for WAN failover, or for connections through the Fireware XTM Command Line Interface.

## Side panels

### Computer lock slot

The two side panels of the XTM 2-Series have a slot for a computer lock.

### Antennas (wireless model only)

The two side panels of the XTM 2-Series Wireless have wireless antennas.

### Wall mounting plate (wireless model only)

The wall mounting plate enables you to put the device in a good location to increase the range.

## AC power adapter

The AC power adapter supplies power for the XTM 2-Series device. You must use the correct plug for the AC power adapter for the power source used in your country.

The international plug kit includes four plugs: Q-NA (North America), Q-UK (United Kingdom), Q-EU (European Union), and Q-SAA (Asia).

### Removing a plug from the AC power adapter

If the plug installed in the AC power adapter does not match your power source:

1. Use your thumb or finger to move the locking key on the AC power adapter down.
2. Hold the bottom of the plug.
3. Pull up from the bottom of the plug to remove it from the AC power adapter.

### Connecting a plug to the AC power adapter

To install a different plug in the AC power adapter:

1. Put the top of the new plug in the AC power adapter at a 45-degree angle.  
You must put in the top of the new plug first. Do not use force to put the plug into the adapter.
2. Push the bottom of the new plug into the AC power adapter.  
*The plug clicks into position.*

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## Restore Factory Default Settings

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If you have a problem in your configuration file that you cannot correct, you can restore the factory default settings and start from a new configuration file. For example, if you do not know the administrator account passphrase, or if a power interruption causes damage to the Fireware XTM OS, you can restore the XTM 2-Series device to the factory default settings and build your configuration again.

To set the XTM 2-Series device to the factory default settings:

1. Disconnect the power supply.
2. Hold down the **Reset** button on the back of the device.
3. Connect the power supply while you continue to hold down the **Reset** button.
4. Continue to hold down the button until the yellow **Attn** indicator stays lit. This shows that the device was successfully restored to the factory default settings.

*This process can take 45 seconds or more.*

You must start the device again before you can connect to it. If you do not, when you try to connect to the device, a web page appears with the message, "Your device is running from a backup copy of firmware." This message also appears if the **Reset** button is stuck in the depressed position. If you continue to see this message, check the **Reset** button and start the device again.

5. Disconnect the power supply.
6. Connect the power supply again.

*The Power Indicator is lit and your device is reset.*

## About the XTM 2-Series Wireless

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The WatchGuard XTM 2-Series Wireless conforms to IEEE 802.11a/b/g/n wireless LAN standards. Some key features that have an effect on performance of an 802.11a/b/g/n wireless device include antenna directional gain, signal attenuation (path loss), and channel data rate.

### Antenna directional gain

Antenna directional gain is based on the shape of the radiation pattern around the antenna. The XTM 2-Series Wireless uses three 2.0 dBi swivel-mount whip antennas. The whip antenna has a radiation pattern similar to a sphere that is squashed in the center. If the antenna points up, the gain is largest in the horizontal direction and less in the vertical direction.

### Signal attenuation

Signal attenuation refers to the loss of signal power. It can be caused by multi-path reflection. Multi-path reflection occurs when RF signals that come to the receiver must move along more than one path because of walls and other surfaces between the transmitter and the receiver. It changes based on the phase at which the signals come. Signal strength can be increased or decreased by as much as 30dB.

To decrease the effect of multi-path reflection, the XTM 2-Series Wireless uses two antennas spaced some distance apart. This decreases signal cancellation and allows the software to find the best antenna to receive and transmit as conditions change.

Wireless clients could have one or two antennas and are more sensitive to the effects of antenna location. Because of this, the XTM 2-Series Wireless can receive signals from a wireless client even if the client does not receive signals from the XTM 2-Series Wireless.

### Channel data rate

Channel data rate changes with the modulation type, which changes based on conditions including noise and the distance between transmitter and receiver. In general, the available data rates for an IEEE 802.11a/b/g/n device range from 1 Mbps in the worst conditions to 300 Mbps in the best conditions.