



# **WatchGuard AP100/AP200**

## **Hardware Guide**

---

AP100, AP200

---

## Copyright and Patent Information

Copyright© 2012–2016 WatchGuard Technologies, Inc. All rights reserved.

WatchGuard, the WatchGuard logo, LiveSecurity, and any other mark listed as a trademark in the “Terms of Use” portion of the WatchGuard Web site that is used herein are either registered trademarks or trademarks of WatchGuard Technologies, Inc. and/or its subsidiaries in the United States and/or other countries. All other trademarks are the property of their respective owners.

Printed in the United States of America.

Part Number: 275-4827-001 Rev D

Revised: February 4, 2016

U.S. Patent Nos. 6,493,752; 6,597,661; D473,879. Other Patents Pending.

Complete copyright, trademark, patent, and licensing information can be found in the WatchGuard product documentation. You can find this document online at:

<http://www.watchguard.com/wgrd-help/documentation/overview>

## Notice to Users

Information in this guide is subject to change without notice. Updates to this guide are posted at:

<http://www.watchguard.com/wgrd-help/documentation/hardware-guides>

Companies, names, and data used in examples herein are fictitious unless otherwise noted. No part of this guide may be reproduced or transmitted in any form or by any means, electronic or mechanical, for any purpose, without the express written permission of WatchGuard Technologies, Inc.

---

## ABOUT WATCHGUARD

WatchGuard® Technologies, Inc. is a global leader of integrated, multi-function business security solutions that intelligently combine industry standard hardware, best-of-breed security features, and policy-based management tools. WatchGuard provides easy-to-use, but enterprise-powerful protection to hundreds of thousands of businesses worldwide. WatchGuard is headquartered in Seattle, Wash. with offices throughout North America, Europe, Asia Pacific, and Latin America.

To learn more, visit [WatchGuard.com](http://WatchGuard.com).

### ADDRESS

505 Fifth Avenue South  
Suite 500  
Seattle, WA 98104

### SUPPORT

[www.watchguard.com/support](http://www.watchguard.com/support)  
U.S. and Canada +877.232.3531  
All Other Countries +1.206.521.3575

### SALES

U.S. and Canada +1.800.734.9905  
All Other Countries +1.206.613.0895

# Hardware Specifications

---

The WatchGuard® AP family of wireless access points provide secure, reliable, wireless communications while delivering high performance and broad coverage—a perfect combination of services to meet the needs of enterprise-level customers, small businesses, branch offices, campuses, and hotels alike.

WatchGuard AP devices feature 2x2 MIMO (Multiple Input Multiple Output) capability and 802.11 a/b/g/n wireless coverage and operate on both 2.4GHz (b/g/n) and 5GHz (a/n) spectrums, to provide users with enhanced reliability and performance. Internal antennas, slim cases, minimalist labeling, and small LEDs, coupled with wall and ceiling mounting options, make these devices ideal for low profile deployment scenarios. Power is provided via an AC adapter or optional PoE injector when outlet access is not easily accessible.

The WatchGuard AP is managed and controlled directly from a WatchGuard XTM device to provide centralized, secure management and configuration of all WatchGuard wireless devices on your network.

This Hardware Guide describes these WatchGuard AP models:

- AP100 — Single-radio 2.4/5 GHz switchable 2x2 MIMO 802.11n, provides up to 300 Mbps data rate
- AP200 — Dual-radio 2.4 GHz and 5 GHz 2x2 MIMO 802.11n, provides up to 600 Mbps data rate



This Hardware Guide applies to WatchGuard AP100 and AP200 devices. If your WatchGuard AP device has a different model number, your hardware is described in the WatchGuard AP Hardware Guide for that model.

---

## Requirements

---

The WatchGuard AP100 or AP200 device must be managed by a WatchGuard XTM device that uses Fireware XTM OS v11.7.2 or higher.

See the AP100/AP200 Quick Start Guide or the WatchGuard System Manager help for information about how to use your XTM device to manage your WatchGuard AP device.

## Package Contents

---

- WatchGuard AP device
- Quick Start Guide
- Wall/Ceiling Mounting Kit
- T-rail Ceiling Mounting Kit
- Mounting bracket
- AC adapter (12V) with US, EU, UK, AU region-specific adapter

## About Your Hardware

---

### Hardware Specifications

	<b>AP100</b>	<b>AP200</b>
<b>MCU Processor</b>	Atheros AR9344 533MHz	Atheros AR9344 533MHz
<b>Memory: Flash</b>	16 MB	16 MB
<b>Memory: RAM</b>	128 MB (64 MB x 2)	128 MB (64 MB x 2)
<b>Radio</b>	(Radio 1) Atheros AR9344 for switchable 2.4Ghz/5GHz	(Radio 1) Atheros AR9344 for 5GHz (Radio 2) Atheros AR9382 for 2.4GHz
<b>Gigabit Physical Layer (PHY)</b>	Atheros AR8035	Atheros AR8035
<b>Radio Type and Frequency Band</b>	2.4GHz, 802.11b/g/n 5GHz, 802.11a/n 300 Mbps data rate	2.4GHz, 802.11b/g/n 5GHz, 802.11a/n 600 Mbps data rate (300 Mbps per radio)
<b>Antenna</b>	Modular High Efficiency PIFA Antenna Peak Gain: 2.4 to 2.5GHz / 3dBi 5.150-5.875GHz / 4dBi	Modular High Efficiency PIFA Antenna Peak Gain: 2.4 to 2.5GHz / 3dBi 5.150-5.875GHz / 4dBi
<b>Ethernet interface</b>	1 RJ45 connector for 10/100/1000 Gigabit Ethernet	1 RJ45 connector for 10/100/1000 Gigabit Ethernet
<b>Power Interface</b>	DC jack (12V DC input)	DC jack (12V DC input)
<b>Power supply</b>	12V 1.25A	12V 1.25A

---

# Environmental Requirements

---

To safely install your WatchGuard AP device, we recommend that you:

- Install the device indoors.
- Make sure the device has adequate clearance for air flow and cooling.
- Connect it to a surge-protected power supply to prevent damage from sudden power changes

Other environmental requirements:

Operating temperature	32 to 104°F (0 to 40°C)
Operating relative humidity	5% to 90% Non-condensing
Non-operating temperature	-40 to 158°F (-40 to 70°C)
Non-operating relative humidity	5% to 90% Non-condensing

---

# Hardware Description

---

## Device Connections and Buttons

### Ethernet Network Interface

Standard RJ45 connector that supports link speeds of 10/100/1000 Mbps.

### Power Input

If you use the optional 12V AC adapter, connect the AC adapter to the device and to a power source. Use only the WatchGuard AC power adapter for this AP device model.

If you use a PoE adapter other than the optional PoE adapter from WatchGuard, make sure that it complies with the IEEE 802.3af/at PoE specifications.

### Reset Button

Resets the WatchGuard AP device to factory-default settings. You must use a paper clip or other small object to press the reset button through the small hole on the top of the device. The reset button functions differently based on the version of AP device firmware the device uses.

#### For an AP device that uses AP device firmware 1.2.9.2 or higher

- To reset the device to factory-default settings, with the AP device powered on, press and hold the reset button for at least five seconds. After you reset the device, the Power/Status light flashes Amber and Green to indicate that the AP device is not paired to a Firebox or XTM device.
- To reboot the device, but not reset it to factory-default settings, press the reset button briefly (less than 5 seconds).

#### For an AP device that uses AP device firmware 1.2.9.1 or lower

- To reset the device to factory-default settings, with the AP device powered on, press and hold the reset button for at least 12 seconds.

You can see the current AP device firmware version in the Gateway Wireless Controller on the Firebox or XTM device that manages the AP device.

## Device Indicators

The front of the AP device has three status indicators.



Indicator	Indicator color	Interface Status
<b>Wireless</b>	Not lit	Wireless off or disabled
	Amber	2.4GHz and 5GHz wireless network active
	Amber flashing	Transmitting and receiving data
	Green	5GHz wireless network active
	Green flashing	Transmitting and receiving data
	Red	2.4GHz wireless network active
	Red flashing	Transmitting and receiving data
	<b>Ethernet</b>	Not lit
Amber		Link speed at 10/100Mbps
Amber flashing		Transmitting and receiving data
Green		Link speed at 1000Mbps (Gigabit)
Green flashing		Transmitting and receiving data
<b>Power/Status</b>	Not lit	No power
	Amber	Device booting
	Amber / Green flashing	Power on and ready to pair
	Green	Power on and paired

## AC Power Adapter

The AC power adapter supplies 12V DC power to the WatchGuard AP and includes US, EU, UK, and AU region-specific adapter disk plugs.



To connect a region-specific disk plug to the AC power adapter:

1. Insert the round disk plug in the AC power adapter at an angle to align with the slots.
2. Rotate the disk clockwise until it clicks into position.

To remove a disk plug from the AC power adapter:

1. Press the **Push** button on the round disk plug.
2. Rotate the disk counter-clockwise and pull it away from the adapter.

## Ethernet Power Injector

You can also power the WatchGuard AP device with an optional Ethernet Power Injector. This Power over Ethernet (PoE) device allows you to power the WatchGuard AP through an existing ethernet connection. With this feature, you do not have to position your WatchGuard AP device near a power outlet.



The Ethernet Power Injector provides 56V/15.4W power over a single 10/100 Ethernet port, and also includes region-specific plugs (US, EU, UK, AU) for connection to a wall outlet.



This device complies with IEEE 802.3af/at PoE specifications. Do not use any PoE adapters that are not IEEE 802.3af/at compliant as they may damage your device. This device is to be connected only to PoE networks without routing to the outside plant.

## Connect the Ethernet Power Injector

To connect an Ethernet Power Injector to the WatchGuard AP device:

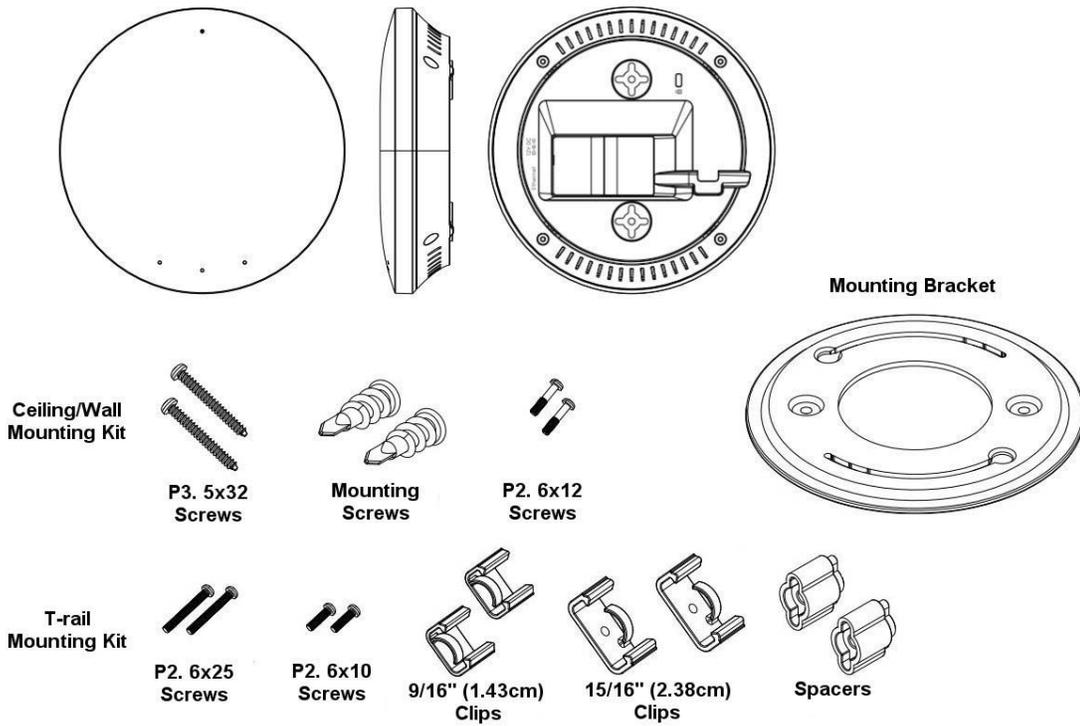
1. Attach a region-specific plug to the Ethernet Power Injector.
2. Plug the Ethernet Power Injector into an AC power source.
3. Connect a straight-through Ethernet cable from your network backbone (for example, a router, switch, or hub) to the **IN** connector on the Ethernet Power Injector.
4. Connect a straight-through Ethernet cable from the WatchGuard AP device Ethernet interface to the **OUT** connector on the Ethernet Power Injector.

## Ethernet Power Injector Specifications

Ethernet Power Injector	
<b>WatchGuard Part #</b>	WG8568
<b>Specification</b>	IEEE 802.3af/at
<b>AC Input Voltage Rating</b>	100 to 240VAC
<b>Output Voltage</b>	56V
<b>Output Power</b>	15.4W
<b>PoE Power Class</b>	3
<b>Ethernet Interfaces</b>	In: RJ-45 for 10/100 Mbps Out: RJ-45 for 10/100 Mbps and 56V DC Voltage on pins 4-5 (+) and 7-8 (-).
<b>Region-specific Adapter Plugs</b>	US, EU, UK, AU
<b>Indicator</b>	Green — Valid PoE load detected and connected. Flashing Green/Red — Invalid load connected. Red — Fault detected.
<b>Temperature</b>	Operating 0 to +40°C Storage -25 to +65°C
<b>Humidity</b>	Operation 5 to 90%
<b>Dimensions</b>	L = 80mm (3.15in) W = 45mm (1.77in) H = 33mm (1.29in)
<b>Weight</b>	95g (3.35oz.)

# Mounting Instructions

All of the items necessary to install your WatchGuard AP device are included in the package.

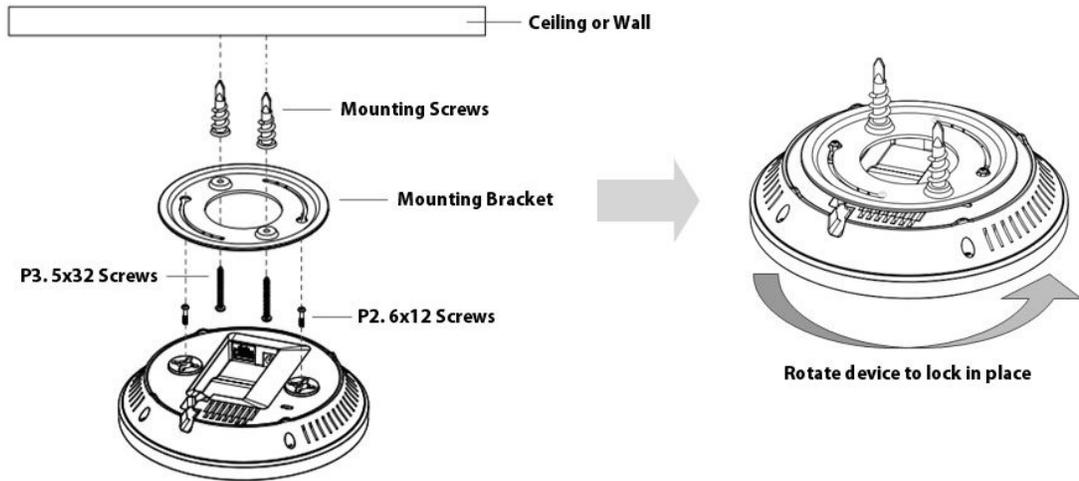


*Items needed to mount an AP100 or AP200 device*

## Ceiling/Wall Mounting

To mount an AP100 or AP200 device to a ceiling or wall:

1. Position the mounting bracket on the wall or ceiling where you want to install the WatchGuard AP device.
2. Use the mounting bracket as a guide to mark the position of the WatchGuard AP device on the wall or ceiling.
3. Remove the mounting bracket and insert the large mounting screws into the marks you made on the ceiling or wall.
4. Insert the long 5x32 screws through the bracket and into the mounting screws.
5. Insert the short 6x12 screws partway into the bottom of the device. Do not tighten the screws completely. Keep the heads of the screws exposed to attach the device to the mounting bracket.
6. If extra space is required between the device and the mounting bracket, use the spacers and long 6x25 screws from the T-rail mounting hardware kit.
7. To attach the device to the mounting bracket, insert the screw heads from the device into the slots in the mounting bracket, and rotate the device clockwise to lock the device in place.



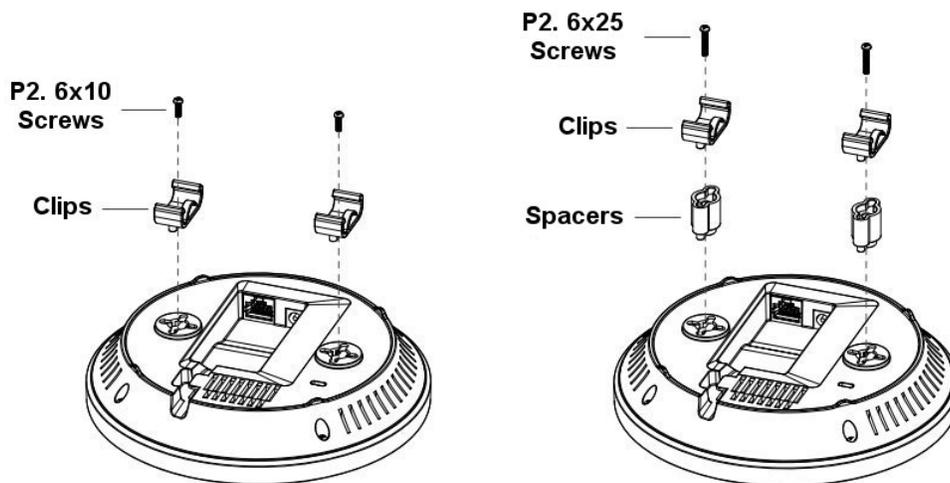
## T-rail Mounting

To mount your WatchGuard AP100 or AP200 device on a suspended ceiling, you can use one of the two T-rail connectors included in the mounting hardware kit: 15/16in (2.38cm) and 9/16in (1.43cm). Before you mount your WatchGuard AP device, make sure you select the correct T-rail connector size.

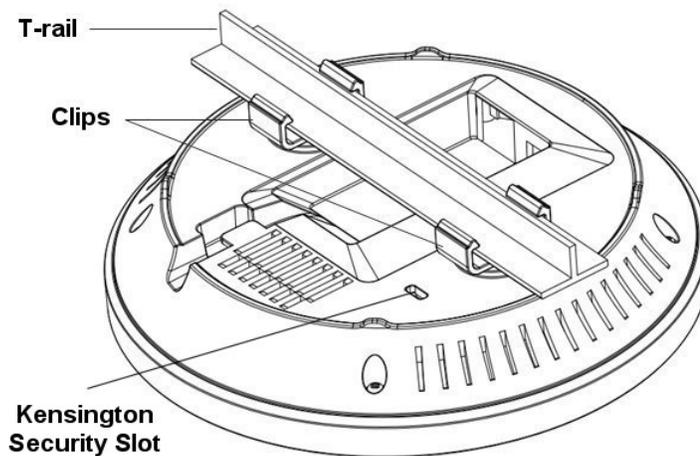
If you require additional space between the device and the ceiling, you can use the provided spacers and long 6x25 screws.

To mount the device on a suspended ceiling with the T-rail connectors:

1. Attach the T-rail connectors to the bottom of the WatchGuard AP device with the short 6x10 screws.



2. Press the device into the ceiling T-rail until the clips snap securely into place.



To protect your device from theft, use the Kensington security slot to attach a cable lock (not included).

## Safety Notices

---

All WatchGuard products are designed and tested to meet strict safety requirements. These requirements include product safety approvals and other global compliance standards. Read these instructions carefully before you operate the product, and refer to them as needed for continued safe operation of your product.

### Product Safety Certification

The WatchGuard product is safety certified under the following standards:

- CAN/CSA C22.2 No.60950-1-07+A1:2011
- IEC 60950-1+Amd1 2nd Edition (2005)
- UL 60950-1:2007 R12.11
- EN 60950-1:2006+A11+A1+A12

### Safety Warning

- Do not place objects on the power cord.
- Do not obstruct the ventilation openings. These openings prevent overheating of the machine.
- Never push objects of any kind into slots or openings on this equipment. Making a contact with a voltage point or shorting out a part may result in fire or electrical shock.
- When removing or installing an appliance, follow the general installation safety instructions.

### Disclaimer

WatchGuard shall not be held liable if the end user alters, modify, or repairs any WatchGuard hardware appliance.

## HINWEISE ZUR SICHERHEIT

Alle WatchGuard Produkte werden entwickelt und getestet, um strenge Sicherheitsanforderungen zu erfüllen. Diese Anforderungen umfassen Produktsicherheit Zulassungen und andere globale Compliance-Standards. Bitte lesen Sie die folgenden Anweisungen sorgfältig, bevor Sie das Produkt, und bezeichnen sie als notwendig, um den sicheren Betrieb des Geräts zu gewährleisten. Weitere Informationen finden Sie in der elektronischen Hardware Guide.

Die WatchGuard Produkt ist Sicherheit unter den folgenden Normen zertifiziert:

- CAN/CSA C22.2 No.60950-1-07+A1:2011
- IEC 60950-1+Amd1 2nd Edition (2005)
- UL 60950-1:2007 R12.11
- EN 60950-1:2006+A11+A1+A12

Sicherheitshinweis

- Legen Sie keine Gegenstände auf das Netzkabel.
- Verdecken Sie nicht die Lüftungsöffnungen. Diese Öffnungen verhindern eine Überhitzung der Maschine.
- Stecken Sie niemals Gegenstände jeglicher Art in die Schlitze oder Öffnungen des Geräts stecken. Der Kontakt mit einem spannungsführenden Punkt oder das Kurzschließen eines Bauteils kann zu einem Brand oder elektrischen Schlag führen.
- Beim Entfernen oder Installieren eines Gerätes, nach den allgemeinen Installation Sicherheitshinweise.

## AVISO DE SEGURIDAD

Todos los productos WatchGuard están diseñados y probados para satisfacer estrictos requisitos de seguridad. Estos requisitos incluyen la homologación de productos de seguridad y otras normas de cumplimiento global. Por favor, lea atentamente las siguientes instrucciones antes de utilizar el producto, y se refieren a ellos como sea necesario para garantizar el funcionamiento seguro y continuo de su producto. Información adicional se puede encontrar en la Guía del usuario electrónica.

### Certificación de seguridad del producto

El producto tiene certificación de seguridad WatchGuard bajo las siguientes normas:

- CAN/CSA C22.2 No.60950-1-07+A1:2011
- IEC 60950-1+Amd1 2nd Edition (2005)
- UL 60950-1:2007 R12.11
- EN 60950-1:2006+A11+A1+A12

### Advertencia de seguridad

- No coloque objetos sobre el cable de alimentación.
- No obstruya las aberturas de ventilación. Estas aberturas evitan el sobrecalentamiento de la máquina.
- Nunca introduzca objetos de ningún tipo en las ranuras o aberturas del equipo. El contacto con puntos de voltaje o el cortocircuito de una pieza podría provocar un incendio o una descarga eléctrica.
- Al extraer o instalar un electrodoméstico, siga las instrucciones generales de instalación de seguridad.



# Legal and Regulatory Information

---

## Limited Hardware Warranty

---

This Limited Hardware Warranty (the “Warranty”) applies to the enclosed hardware product, not including any associated software, which is licensed pursuant to a separate end-user license agreement and warranty (the “Product”). BY USING THE PRODUCT, YOU (either an individual or a single entity) AGREE TO THE TERMS HEREOF. If you do not agree to these terms, please return this package, along with proof of purchase, to the authorized dealer from which you purchased it for a full refund. WatchGuard Technologies, Inc. (“WatchGuard”) and you agree as set forth below or on the reverse side of this card, as applicable:

1. LIMITED WARRANTY. WatchGuard warrants that upon delivery and for one (1) year thereafter (the “Warranty Period”): (a) the Product will be free from material defects in materials and workmanship, and (b) the Product, when properly installed and used for its intended purpose and in its intended operating environment, will perform substantially in accordance with WatchGuard applicable specifications.

This warranty does not apply to any Product that has been: (i) altered, repaired or modified by any party other than WatchGuard except for the replacement or inclusion of specified components authorized in, and performed in strict accordance with, documentation provided by WatchGuard; or (ii) damaged or destroyed by force majeure events, accidents, power spikes or similar events, or by any intentional, reckless or negligent acts or omissions of any party. You may have additional warranties with respect to the Product from the manufacturers of Product components. However, you agree not to look to WatchGuard for, and hereby release WatchGuard from any liability for, performance of, enforcement of, or damages or other relief on account of, any such warranties or any breach thereof.

2. REMEDIES. If any Product does not comply with the WatchGuard warranties set forth in Section 1 above, WatchGuard will, following the receipt of the product you claim is defective and at its option, either (a) repair the Product, or (b) replace the Product with a like or similar product; provided, that you will be responsible for returning the Product and for all costs of shipping and handling. Repair or replacement of the Product shall not extend the Warranty Period. Any Product, component, part or other item replaced by WatchGuard becomes the property of WatchGuard. WatchGuard shall not be responsible for return of or damage to any software, firmware, information or data contained in, stored on, or integrated with any returned Products.

3. DISCLAIMER AND RELEASE. THE WARRANTIES, OBLIGATIONS AND LIABILITIES OF WATCHGUARD, AND YOUR REMEDIES, SET FORTH IN PARAGRAPHS 1 AND 2 ABOVE ARE EXCLUSIVE AND IN SUBSTITUTION FOR, AND YOU HEREBY WAIVE, DISCLAIM AND RELEASE ANY AND ALL OTHER WARRANTIES, OBLIGATIONS AND LIABILITIES OF WATCHGUARD AND ALL OTHER RIGHTS, CLAIMS AND REMEDIES YOU MAY HAVE AGAINST WATCHGUARD, EXPRESS OR IMPLIED, ARISING BY LAW OR OTHERWISE, WITH RESPECT TO ANY NONCONFORMANCE OR DEFECT IN THE PRODUCT (INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED

WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ANY IMPLIED WARRANTY ARISING FROM COURSE OF PERFORMANCE, COURSE OF DEALING, OR USAGE OF TRADE, ANY WARRANTY OF NONINFRINGEMENT, ANY WARRANTY OF UNINTERRUPTED OR ERROR-FREE OPERATION, ANY OBLIGATION, LIABILITY, RIGHT, CLAIM OR REMEDY IN TORT, WHETHER OR NOT ARISING FROM THE NEGLIGENCE (WHETHER ACTIVE, PASSIVE OR IMPUTED) OR FAULT OF WATCHGUARD OR FROM PRODUCT LIABILITY, STRICT LIABILITY OR OTHER THEORY, AND ANY OBLIGATION, LIABILITY, RIGHT, CLAIM OR REMEDY FOR LOSS OR DAMAGE TO, OR CAUSED BY OR CONTRIBUTED TO BY, THE PRODUCT).

4. LIMITATION AND LIABILITY. WATCHGUARD'S LIABILITY (WHETHER ARISING IN CONTRACT (INCLUDING WARRANTY), TORT (INCLUDING ACTIVE, PASSIVE OR IMPUTED NEGLIGENCE AND STRICT LIABILITY AND FAULT) OR OTHER THEORY) WITH REGARD TO ANY PRODUCT WILL IN NO EVENT EXCEED THE PURCHASE PRICE PAID BY YOU FOR SUCH PRODUCT. THIS SHALL BE TRUE EVEN IN THE EVENT OF THE FAILURE OF ANY AGREED REMEDY. IN NO EVENT WILL WATCHGUARD BE LIABLE TO YOU OR ANY THIRD PARTY (WHETHER ARISING IN CONTRACT (INCLUDING WARRANTY), TORT (INCLUDING ACTIVE, PASSIVE OR IMPUTED NEGLIGENCE AND STRICT LIABILITY AND FAULT) OR OTHER THEORY) FOR COST OF COVER OR FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOSS OF PROFITS, BUSINESS, OR DATA) ARISING OUT OF OR IN CONNECTION WITH THIS WARRANTY OR THE USE OF OR INABILITY TO USE THE PRODUCT, EVEN IF WATCHGUARD HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. THIS SHALL BE TRUE EVEN IN THE EVENT OF THE FAILURE OF ANY AGREED REMEDY.

5. MISCELLANEOUS PROVISIONS. This Warranty will be governed by the laws of the state of Washington, U.S.A., without reference to its choice of law rules. The provisions of the 1980 United Nations Convention on Contracts for the International Sales of Goods, as amended, shall not apply. You agree not to directly or indirectly transfer the Product or use of the product or associated documentation to any country to which such transfer would be prohibited by the U.S. Export laws and regulations. If any provision of this Warranty is found to be invalid or unenforceable, then the remainder shall have full force and effect and the invalid provision shall be modified or partially enforced to the maximum extent permitted by law to effectuate the purpose of this Warranty. This is the entire agreement between WatchGuard and you relating to the Product, and supersedes any prior purchase order, communications, advertising or representations concerning the Product AND BY USING THE PRODUCT YOU AGREE TO THESE TERMS. IF THE PRODUCT IS BEING USED BY AN ENTITY, THE INDIVIDUAL INDICATING AGREEMENT TO THESE TERMS BY USING THE PRODUCT REPRESENTS AND WARRANTS THAT (A) SUCH INDIVIDUAL IS DULY AUTHORIZED TO ACCEPT THE WARRANTY ON BEHALF OF THE ENTITY AND TO BIND THE ENTITY TO THE TERMS OF THIS WARRANTY; (B) THE ENTITY HAS THE FULL POWER, CORPORATE OR OTHERWISE, TO ENTER INTO THE WARRANTY AND PERFORM ITS OBLIGATIONS UNDER THE WARRANTY AND; (C) THE WARRANTY AND THE PERFORMANCE OF THE ENTITY'S OBLIGATIONS UNDER THE WARRANTY DO NOT VIOLATE ANY THIRD-PARTY AGREEMENT TO WHICH THE ENTITY IS A PARTY. No change or modification of the Warranty will be valid unless it is in writing and is signed by WatchGuard.

All WatchGuard products are designed and tested to meet strict safety requirements. These requirements include product safety approvals and other global compliance standards. Please read the following instructions carefully before operating the product, and refer to them as needed to ensure the continued safe operation of your product. Additional information can be found in the electronic Hardware Guide.

# Declaration of Conformity

## Declaration of Conformity

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 Access Point, Model AP100 & AP200

**EU Directive(s):**

Radio & Télécommunications Terminal Equipment (1999/5/EC) Low Voltage (2006/95/EC)  
Electromagnetic Compatibility (2004/108/EC)  
Energy-related Products (2009/125/EC)

**Common Standard(s):**

EN 60950-1:2006;Am11:2009+Am1:2010+Am12:2011	Safety of ITE
EN 55022:2010	Class A Emissions for ITE
EN 55024:2010	Immunity for ITE
EN 61000-3-2:2006+A1:2009+A2:2009	Harmonics
EN 61000-3-3:2008	Flicker

**Wireless Standard(s):**

EN 301 489-01 v1.9.2 (2011-09)	EMC and Radio Spectrum Matters
EN 301 489-17 v2.1.1 (2009-05)	EMC and Radio Spectrum Matters
EN 300 328 v1.7.1 (2006-10)	Radio Spectrum Matters
EN 301 893 v1.6.1 (2011-11)	Broadband Radio Access Networks

**In accordance with the Radio and Telecommunications Terminal Equipment Act (FTEG) and Directive 1999/5/EC (R&TTE Directive).**

Manufacturer / Hersteller:	WatchGuard Technologies
Radio Equipment / Funkanlage:	505 5 <sup>th</sup> Ave S. Suite 500, Seattle, WA 98104
Type Designation / Typenbezeichnung:	Wireless Access Point
Specifications / Technische Daten:	AP100 & AP200
Intended Purpose / Verwendungszweck:	802.11a,b,g,n (2.4Ghz & 5GHz)
Equipment Class / Betriebsmittel der Klasse:	Indoor Access Point
	Class II

The above device complies with the essential requirements and other relevant provisions to Directive 1999/5/EC when used for its intended purpose. This equipment may be operated in the USA, Canada, Europe Union & Australia-New Zealand.

**Warning!** This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

**Restrictions: Italy** – For private use, a general authorization is required if this device is used outside own premises.

**Norway** – This device does not apply for the geographical area within a radius of 20 km from the center of Ny-Alesund.

Die oben genannten Gerät entspricht den grundlegenden Anforderungen und anderen relevanten Bestimmungen der Richtlinie 1999/5/EG, wenn für den vorgesehenen Zweck verwendet werden. Dieses Gerät ist für die Verwendung in den USA, Kanada, Europäische Union & Australia-New Zealand betrieben werden.

**Warnung!** Dies ist eine Einrichtung der Klasse A. Diese Einrichtung kann im Wohnbereich Funkstörungen verursachen. In diesem Fall kann vom Betreiber verlangt werden, angemessene Maßnahmen durchzuführen

**Beschränkungen: Italien** – Für den privaten Gebrauch ist eine allgemeine Genehmigung erforderlich, wenn das Gerät außerhalb der eigenen Räumlichkeiten verwendet wird. **Norwegen** – Dieses Gerät darf nicht in den geografischen Gebieten innerhalb eines Radius von 20 km vom Zentrum von Ny-Alesund verwendet werden.



Signature:  
Full Name: Steve Zirschky  
Position: Corporate Officer  
Date: June 19, 2012

RoHS



366-4250-001 Rev A

## FCC Certification

---

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This device has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

\* FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

Operations in the 5.15-5.25GHz band are restricted to indoor usage only.

IMPORTANT NOTE:

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Dieses Gerät wurde getestet und entspricht den Grenzwerten für ein Digitalgerät der Klasse A gemäß Teil 15 der Federal Communications Commission (FCC) Regeln einhalten. Diese Grenzwerte sollen einen angemessenen Schutz vor schädlichen Störungen, wenn das Gerät in einer kommerziellen Umgebung betrieben wird. Dieses Gerät erzeugt, verwendet und kann Hochfrequenzenergie abstrahlen, und wenn nicht installiert und in Übereinstimmung mit der Bedienungsanleitung, kann es Störungen im Funkverkehr verursachen. Der Betrieb dieses Gerätes in einem Wohngebiet wird wahrscheinlich schädliche Interferenzen in dem Fall muss der Benutzer die Störungen auf seine / ihre eigene Kosten zu beheben.

## 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 Certification

---

This device complies with RSS-210 of the Industry Canada Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Ce dispositif est conforme à la norme CNR-210 d'Industrie Canada applicable aux appareils radio exempts de licence. Son fonctionnement est sujet aux deux conditions suivantes: (1) le dispositif ne doit pas produire de brouillage préjudiciable, et (2) ce dispositif doit accepter tout brouillage reçu, y compris un brouillage susceptible de provoquer un fonctionnement indésirable.

## R&TTE Compliance Statement

---

This device complies with the essential requirements of the R&TTE Directive 1999/5/EC. The following test methods have been applied in order to prove presumption of conformity with the essential requirements of the R&TTE Directive 1999/5/EC:

## 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. This device 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

---

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.

## REACH Certificate of Compliance

---

The new EU chemicals policy REACH (Registration, Evaluation, Authorization and restriction of Chemicals) came into effect on June 1, 2007. REACH is Europe's new chemicals legislation, which is applicable in all 27 EU Member States as well as the EFTA European Economic Area (EEA). REACH creates a new system for gathering information, assessing risks to human health and the environment, and authorizing or restricting the marketing and use of chemicals produced or supplied in the EEA. REACH has an impact on EEA producers and importers of finished products and users of chemicals in the course of industrial or professional activities.

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:

- WatchGuard does not import more than 1 metric ton per year of a substance as defined by REACH.
- WatchGuard products are non-chemical products that are not designed to release any substance under normal and reasonably predictable application.
- Our products do not contain the listed substances at more than 0.1% by weight of the whole product/part.

## Brazil

---

Este equipamento opera em caráter secundário, isto é, não tem direito a proteção contra interferência prejudicial, mesmo de estações do mesmo tipo, e não pode causar interferência a sistemas operando em caráter primário.

## Mexico

---

La operación de este equipo está sujeta a las siguientes dos condiciones:

1. es posible que este equipo o dispositivo no cause interferencia perjudicial y
2. este equipo o dispositivo debe aceptar cualquier interferencia, incluyendo la que pueda causar su propia operación no deseada.

## China

---

低功率射频设备的管理办法

### 第 12 条

对于那些低功率的无线电频率的设备已经获得了批准，公司，业务单位或用户不应该改变它的频率，增加它的力量，或改变其原有的特色和功能。

### 第 14 条

低功率射频设备的操作的条件，没有造成有害干扰航空安全和认可的无线电台，如果造成干扰，用户必须立即停止操作设备，而无法再操作，直到产生有害干扰是明确的。

授权的无线电台站装置的无线通信服务的操作根据与传播法。

低功率射频设备的运行是受到认可的无线电台的操作所造成的干扰，另一种有意或无意的散热器，工业，科学和医疗（ISM）设备，或通过附带的散热器。

## VCCI Notice Class A ITE (Japan)

---

この装置は、クラス A 情報技術装置です。この装置を家庭環境で使用すると電波妨害を引き起こすことがあります。この場合には使用者が適切な対策を講ずるよう要求されることがあります。

## France

---

(i) les dispositifs fonctionnant dans la bande 5150-5250 MHz sont réservés uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux;

(ii) De plus, les utilisateurs devraient aussi être avisés que les utilisateurs de radars de haute puissance sont désignés utilisateurs principaux (c.-à-d., qu'ils ont la priorité) pour les bandes 5 250-5 350 MHz et 5 650-5 850 MHz et que ces radars pourraient causer du brouillage et/ou des dommages aux dispositifs LAN-EL.

## Korea

---

### 사용자안내문

기종별	사용자안내문
A 급 기기 (업무용방송통신기자재)	이 기기는 업무용(A 급) 전자파적합기기로서 판매자 또는 사용자는 이 점을 주의하시기 바라며, 가정외의 지역에서 사용하는 것을 목적으로 합니다.
After sales information: IT LOGIN #1402, 14F Yongsungbiztel 314-1 Hangangro-2ga Yongsangu Seoul, Korea Seoul, SEOU 140-750	JOEUN Woori-venturetownll 3F, 82-29  Seoul, SEOU 140-750

## Taiwan Class A Type Device

---

警告使用者: 這是甲類的資訊產品, 在居住的環境中使用時, 可能會造成射頻干擾, 在這種情況下, 使用者會被要求採取某些適當的對策。

## GNU General Public License (GPL)

---

Version 2, June 1991  
Copyright © 1989, 1991 Free Software Foundation, Inc.  
51 Franklin Street, Fifth Floor  
Boston, MA 02110-1301, USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

### Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

## Terms and Conditions for Copying, Distribution, and Modification

1. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

2. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.
- You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

- If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:
  - Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
  - Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
  - Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.
6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.
7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.
9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.  
Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.
10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

## NO WARRANTY

1. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.
2. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.