

Enterasys® Wireless

Wireless Access Point

Installation Guide

WS-AP3705i

P/N 9034646





Electrical Hazard: Only qualified personnel should perform installation procedures.

Riesgo Electrico: Solamente personal calificado debe realizar procedimientos de instalacion.

Elektrischer Gefahrenhinweis: Installationen sollten nur durch ausgebildetes und qualifiziertes Personal vorgenommen werden.

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金属部件 (Metal Parts)	×	○	○	○	○	○
电路模块 (Circuit Modules)	×	○	○	○	○	○
电缆及电缆组件 (Cables & Cable Assemblies)	×	○	○	○	○	○
塑料和聚合物部件 (Plastic and Polymeric parts)	○	○	○	○	○	○
电路开关 (Circuit Breakers)	○	○	○	○	○	○

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Contents

About This Guide

Who Should Use This Guide	ix
How to Use This Guide	ix
Related Documents	x
Typographical Conventions	x
Getting Help	xi

Chapter 1: Introduction

WS-AP3705i Overview	1-1
WS-AP3705i LED Indicators	1-2
Console Port	1-3
LAN Port	1-3
Reset Switch	1-4
Kensington Lock Slot	1-4

Chapter 2: Installation

Package Contents	2-1
Unpacking the WS-AP3705i	2-1
Accessories	2-1
WS-AP3705i Installation Procedures	2-2
Mounting the WS-AP3705i to a Flat Drop Ceiling	2-2
Mounting the WS-AP3705i to a Protruded Drop Ceiling	2-3
Mounting the WS-AP3705i to a Wall	2-6
Mounting on a Junction Box	2-7
Mounting on an Existing Mount Plate	2-8
Network and Power Connections	2-9
LAN/Console Connections	2-9
Power Connections	2-9
Connecting the DC Power Supply to the WS-AP3705i	2-10

Appendix A: Specifications

Appendix B: Regulatory Information

Enterasys Wireless WS-AP3705i	B-1
United States	B-1
FCC Declaration of Conformity Statement\	B-1
USA Conformance Standards	B-2
FCC RF Radiation Exposure Statement.....	B-2
Canada	B-3
Industry Canada Compliance Statement.....	B-3
Canada Conformance Standards	B-3
European Community	B-3
Declaration of Conformity in Languages of the European Community.....	B-4
European Conformance Standards	B-5
Conditions of use in the European Community	B-6
European Spectrum Usage Rules	B-7
Certifications of Other Countries	B-8

Figures

1-1	Enterasys Wireless WS-AP3705i Front View	1-2
1-2	WS-AP3705i Back View	1-3
2-1	Mounting the WS-AP3705i on a Flat Drop Ceiling (no bracket)	2-3
2-2	Attaching the Ceiling Mount Assembly to the T-Rail	2-4
2-3	Mounting the AP to the Ceiling Mount Assembly	2-5
2-4	Optional Wall Mounting Bracket (WS-MB3705-01)	2-6
2-5	Mounting the MB3705 mounting bracket to a Wall	2-6
2-6	Attaching WS-AP3705i to Wall Mount Bracket	2-7
2-7	Attaching the Wall Mount Plate to a Junction Box	2-8
2-8	Attaching WS-AP3705i mounting bracket to existing AP mount plate	2-9

Tables

1-1	WS-AP3705i LED Status Indicators	1-2
2-1	WS-AP3705i Components	2-1
A-1	Specifications for the WS-AP3705i	A-1
B-1	European Spectrum Usage Rules	B-7

About This Guide

The guide describes how to mount and connect cables to the Enterasys Wireless WS-AP3705i. In addition, this guide provides information on the product certifications and national approvals for the WS-AP3705i.



Note: This guide does not provide information on configuration of the Enterasys Wireless APs. For information on how to configure the Enterasys Wireless APs, see the *Enterasys Wireless Convergence Software User Guide*.

Who Should Use This Guide



Electrical Hazard: Only qualified personnel should install or service this unit.

Riesgo Electrico: Nada mas personal capacitado debe de instalar o darle servicio a esta unida.

Elektrischer Gefahrenhinweis: Installationen oder Servicearbeiten sollten nur durch ausgebildetes und qualifiziertes Personal vorgenommen werden.

This product should be installed and serviced by a qualified licensed technician, electrician, or electrical maintenance person familiar with its operation and the hazards involved. Proper installation, which includes wiring, mounting, fusing or other over current protection and grounding, can reduce the chance of electric shocks, fires, or explosion in this product or products used within this product.

How to Use This Guide

Read through this guide completely to familiarize yourself with its contents and to gain an understanding of the features and capabilities of the WS-AP3705i. A general working knowledge of data communications networks is helpful when setting up this module.

This preface provides an overview of this guide. A brief summary of each chapter defines the conventions used in this document and instructs how to obtain technical support from Enterasys Networks. To locate information about various subjects in this guide, refer to the following table.

For...	Refer to...
An overview of the WS-AP3705i features.	Chapter 1, Introduction
Instructions to mount the WS-AP3705i, connect cables, and connect power.	Chapter 2, Installation
Specifications, environmental requirements, and physical properties of the WS-AP3705i.	Appendix A, Specifications
Regulatory certifications and national approvals.	Appendix B, Regulatory Information

Related Documents

The manual listed below can be obtained from the World Wide Web in Adobe Acrobat Portable Document Format (PDF) at the following site:

<https://extranet.enterasys.com/downloads/>

- *Enterasys Wireless Convergence Software User Guide*

Typographical Conventions

The following typographical conventions and icons are used in this document.

blue type	Indicates a hypertext link. When reading this document online, click the text in blue to go to the referenced figure, table, or section.
Lowercase x	Indicates the general use of an alphanumeric character (for example, 6x1xx, the x's indicate a combination of numbers or letters).
	Note: Calls the reader's attention to any item of information that may be of special importance.
	Caution: Contains information essential to avoid damage to the equipment. Precaución: Contiene información esencial para prevenir dañar el equipo. Achtung: Verweist auf wichtige Informationen zum Schutz gegen Beschädigungen.
	Warning: Warns against an action that could result in personal injury or death. Advertencia: Advierte contra una acción que pudiera resultar en lesión corporal o la muerte. Warnhinweis: Warnung vor Handlungen, die zu Verletzung von Personen oder gar Todesfällen führen können!
	Electrical Hazard: Warns against an action that could result in personal injury or death. Riesgo Electrico: Advierte contra una acción que pudiera resultar en lesión corporal o la muerte debido a un riesgo eléctrico. Elektrischer Gefahrenhinweis: Warnung vor sämtlichen Handlungen, die zu Verletzung von Personen oder Todesfällen – hervorgerufen durch elektrische Spannung – führen können!

Getting Help

For additional support related to the WS-AP3705i or this document, contact Enterasys Networks using one of the following methods:

World Wide Web	www.enterasys.com/support/
Phone	1-800-872-8440 (toll-free in U.S. and Canada) or 1-978-684-1000 For the Enterasys Networks Support toll-free number in your country: www.enterasys.com/support/
Email	support@enterasys.com To expedite your message, please type [Wireless] in the subject line.

Before contacting Enterasys Networks for technical support, have the following data ready:

- Your Enterasys Networks service contract number
- A description of the failure
- A description of any action(s) already taken to resolve the problem (for example, changing mode switches or rebooting the unit)
- The serial and revision numbers of all involved Enterasys Networks products in the network
- A description of your network environment (such as layout, cable type, other relevant environmental information)
- Network load and frame size at the time of trouble (if known)
- The device history (for example, if you have returned the device before, or if this is a recurring problem)
- Any previous Return Material Authorization (RMA) numbers

Introduction

This installation guide provides an overview and installation instructions for the Enterasys Wireless WS-AP3705i.

For information about...	Refer to page...
WS-AP3705i Overview	1-1
WS-AP3705i LED Indicators	1-2
Console Port	1-3
LAN Port	1-3
Reset Switch	1-4
Kensington Lock Slot	1-4

WS-AP3705i Overview

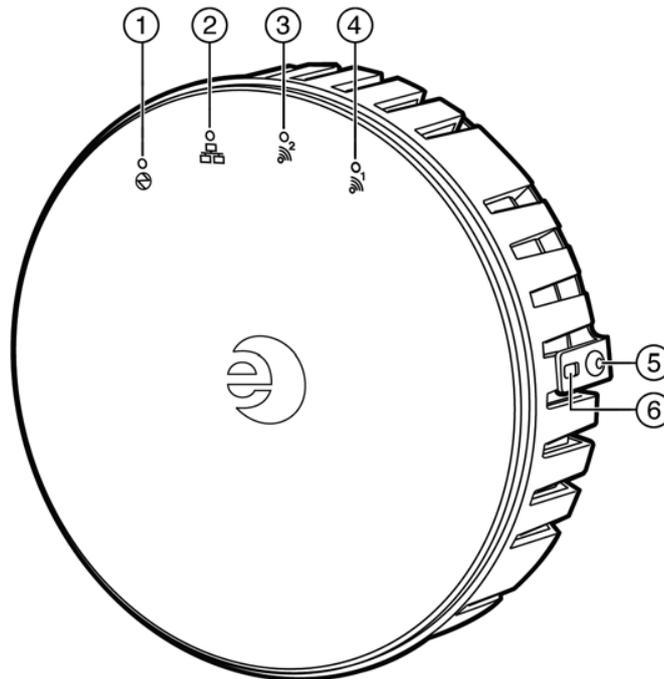
The Enterasys Wireless WS-AP3705i is a cost-effective solution for extending your wireless LAN around indoor locations. There are four spring clips on the back of the AP for quick and easy attachment to a flat drop ceiling T-bar rail. Mounting brackets are available as optional accessories for mounting of the WS-AP3705i to walls and protruded drop ceilings.

The WS-AP3705i is an 802.11n AP that also supports 802.11a/802.11g and 802.11b legacy devices. It is delivered in a round, compact enclosure. The WS-AP3705i contains four internal antennas, providing range and coverage versatility.

The WS-AP3705i interoperates fully with the Enterasys wireless LAN, including support for Enterasys wireless VoWLAN, branch office mode, availability and mobility features.

The following views illustrate the LED status indicators (front) and connection ports (back) on the WS-AP3705i.

Figure 1-1 Enterasys Wireless WS-AP3705i Front View



- | | |
|-------------------------------|---|
| 1 LED 1 (AP status) | 4 LED 4 (Radio 1 status) |
| 2 LED 2 (Ethernet link state) | 5 Rivet on mounting bracket locking tab |
| 3 LED 3 (Radio 2 status) | 6 Slot for Kensington lock on bracket locking tab |

WS-AP3705i LED Indicators

The WS-AP3705i provides four LED indicators (see [Figure 1-1](#)). The LEDs provide status information (see [Table 1-1](#)) on the current state of the WS-AP3705i. For more information, see the *Enterasys Wireless Convergence Software User Guide*.

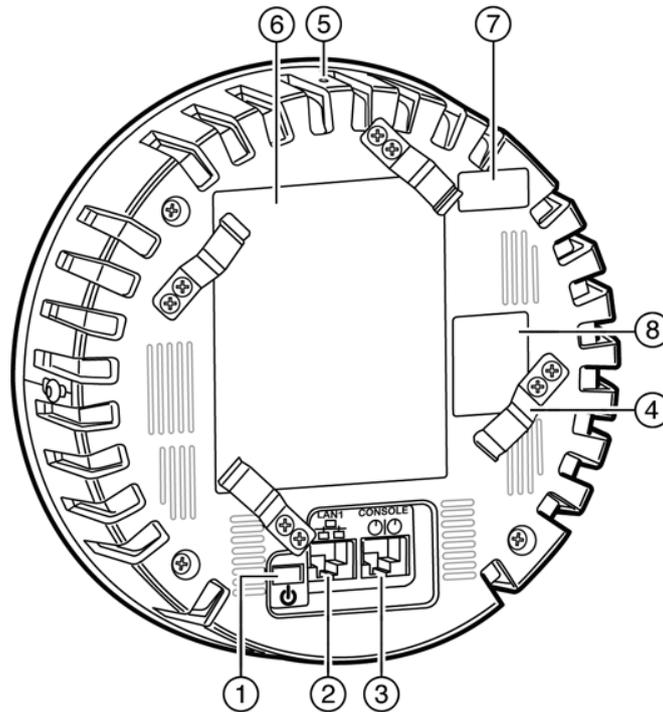
Table 1-1 WS-AP3705i LED Status Indicators

LED	Icon	Status	Description
1 (AP status)		On Green	Indicates the WS-AP3705i is working normally.
		Flashing Green	Indicates: <ul style="list-style-type: none"> running a self test loading software program
		On Red	Indicates a CPU or system failure.
2 (Ethernet link state)		On Green	Indicates a valid 100Mbps Ethernet link.
		On Blue	Indicates a valid 1Gbps Ethernet link.
		Off	Indicates the link is down.

Table 1-1 WS-AP3705i LED Status Indicators (continued)

LED	Icon	Status	Description
3 (Radio 2 status)		On Green	Indicates Radio 2 (2.4GHz) is enabled.
4 (Radio 1 status)		On Green	Indicates Radio 1 (5GHz) is enabled.

Figure 1-2 WS-AP3705i Back View



- | | |
|--|------------------------|
| 1 DC Power Supply Input Slot (Non- functional) | 5 Reset Switch |
| 2 Ethernet LAN Port | 6 Product Label |
| 3 Console Port | 7 Tamper Evident Label |
| 4 Mount Clips [4] | 8 Device Label |

Console Port

The WS-AP3705i includes a single console port (see [Figure 1-2](#) on page 1-3) for debug purposes. This port enables connection of a console device to the WS-AP3705i through a serial cable. The AP must be removed from the wall or ceiling mount to enable access to the console port. The console device can be a PC or workstation running a VT-100 terminal adapter emulator, or a VT-100 terminal.

LAN Port

The WS-AP3705i has one 10/100/1000BaseT RJ45 LAN port (see [Figure 1-2](#) on page 1-3) that can be attached directly to a 10/100/1000BaseT LAN segment. This segment must conform to the IEEE 802.3 or 802.3u specifications.

The WS-AP3705i appears as an Ethernet node and performs a bridging function by moving packets from the wired LAN to remote workstations on the wireless infrastructure.

The LAN port also supports power over Ethernet (PoE) based on the IEEE 802.3at standard. Refer to “[Power Connections](#)” on page 2-9, for information on supplying power to the WS-AP3705i network port from a network device, such as a switch, that provides Power over Ethernet (PoE).

Reset Switch

The WS-AP3705i provides a Reset Switch to reset or restore factory default configurations. Use a pen tip or a nail to press the switch button through the hole (located on the side of the AP). If you hold down the button for less than 5 seconds, the WS-AP3705i performs a software interrupt, causing the AP to drop all connections and reset. If you hold the button down for 5 seconds or more, any configuration changes are removed, and the factory default configuration restores to the WS-AP3705i.

Kensington Lock Slot

There is a slot for a Kensington lock through the mounting bracket locking tab and the side of the AP, above the rivet ([Figure 1-2](#) on page 1-3). See Kensington lock documentation for instructions on use of the lock.

Installation

This chapter provides installation instructions for the Enterasys Wireless WS-AP3705i.

For information about...	Refer to page...
Package Contents	2-1
Accessories	2-1
WS-AP3705i Installation Procedures	2-2
Network and Power Connections	2-9

Package Contents

The Enterasys Wireless WS-AP3705i package includes the WS-AP3705i itself, and a Quick Reference Card.

Unpacking the WS-AP3705i

Unpack the WS-AP3705i as follows:

1. Open the box and remove the packing material protecting the WS-AP3705i.
2. Verify that the carton contains the items listed in [Table 2-1](#).

Table 2-1 WS-AP3705i Components

Quantity	Item
1	WS-AP3705i
1	Enterasys Wireless WS-AP3705i <i>Quick Reference Card</i> (9034648)

Perform a visual inspection of the WS-AP3705i for any signs of physical damage. Contact Enterasys Networks if there are any signs of damage. Refer to “[Getting Help](#)” on page xi for details.

Accessories

The following is a list of accessories available for the Enterasys Wireless WS-AP3705i. For ordering information, contact your Enterasys sales representative.

- Wall mount/Junction box bracket
 - Enterasys WS-MB3705-01

- includes mount plate; plastic mount rivet; 3 1.5" wall screws; 3 wall anchors for hollow core or plasterboard; 2 machine screws
- Protruded drop ceiling mount bracket
 - Enterasys WS-MB3705-02
 - includes 2 T-bar clips, mount plate with one T-bar clip attached, one loose; 2 screws for T-bar clip; plastic mount rivet; no wall screws

WS-AP3705i Installation Procedures



Electrical Hazard: This product should be installed and serviced by a qualified licensed technician, electrician, or electrical maintenance person familiar with its operation and the hazards involved.

This section describes the following installation procedures:

For information about...	Refer to page...
Mounting the WS-AP3705i to a Flat Drop Ceiling	2-2
Mounting the WS-AP3705i to a Protruded Drop Ceiling	2-3
Mounting the WS-AP3705i to a Wall	2-6
Mounting on a Junction Box	2-7
Mounting on an Existing Mount Plate	2-8



Note: If mounting on a ceiling, you need to power the WS-AP3705i through an Ethernet cable with POE, unless you have a power source above the ceiling with a cable that can reach to the point where you are installing the WS-AP3705i.

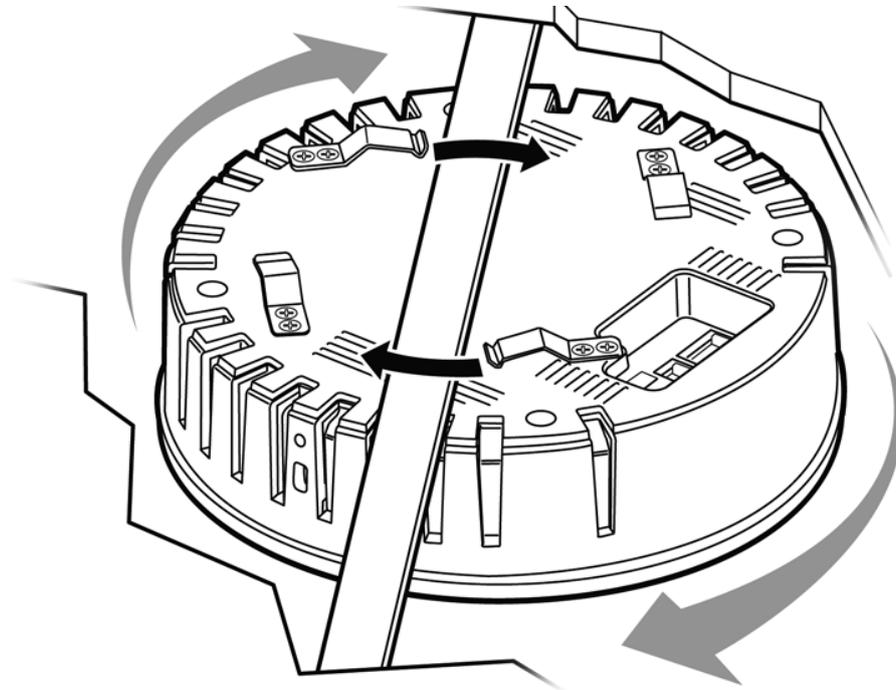
Mounting the WS-AP3705i to a Flat Drop Ceiling

A flat drop ceiling is a drop ceiling in which the ceiling tiles are flat across the T-bar rails on which they rest. To mount the WS-AP3705i to a flat drop ceiling, you do not need an extra mounting bracket. To attach the WS-AP3705i to a flat drop ceiling:

1. Remove the ceiling panels around the drop ceiling rails where you intend to mount the AP. Verify that the Ethernet cable that will connect to the AP can reach the AP at the point where you plan to mount it.

- Place the back of the WS-AP3705i against the T-bar rail and turn the AP so that the mount clips snap over the rail, as shown in [Figure 2-1](#). [Figure 2-1](#) shows the AP mounting operation from a perspective above the rail, in which case the twist is clockwise. From a perspective below the AP, you are turning the AP in a counterclockwise motion.

Figure 2-1 Mounting the WS-AP3705i on a Flat Drop Ceiling (no bracket)



- Make a hole through the ceiling panel closest to the power slot on the AP. Then run the Ethernet cable through the hole and into the LAN port (RJ45 Ethernet port) in the recessed connector bay.
- Replace the displaced ceiling panels.

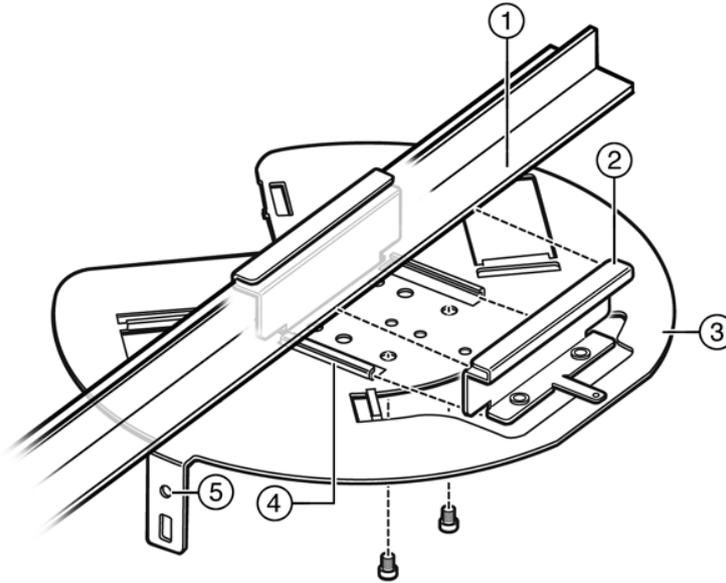
Mounting the WS-AP3705i to a Protruded Drop Ceiling

A protruded drop ceiling is a drop ceiling in which the ceiling tiles protrude below the T-bar rails on which they rest. To mount the WS-AP3705i to a protruded drop ceiling, you need the optional Protruded Drop Ceiling Mount Bracket (WS-MB3705-02). To attach the WS-AP3705i to a protruded drop ceiling:

- Attach the slide plate to the ceiling mount bracket by sliding the bottom plate of the slide plate into the slide plate tracks in the center of the mount plate as shown in [Figure 2-2](#) on page 2-4.
- Remove the ceiling panels around the drop ceiling T-bar rails where you intend to mount the AP. Verify that the Ethernet cable that will connect to the AP can reach the AP at the point where you plan to mount it.

3. Attach the bracket to the drop ceiling T-bar rails by sliding the slide plates over the rails as shown (Figure 2-2), then insert and tighten the two included machine screws into the mount holes in the ceiling mount plate and slide plate.

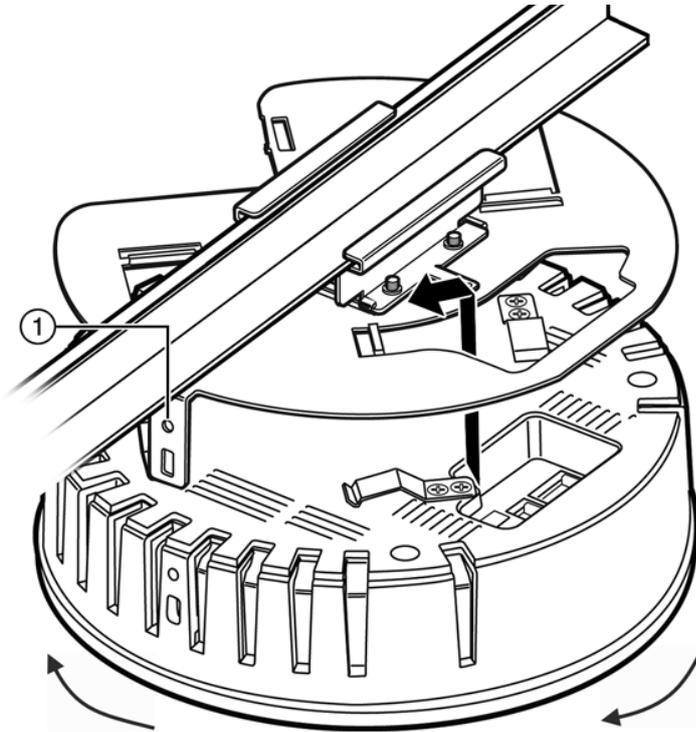
Figure 2-2 Attaching the Ceiling Mount Assembly to the T-Rail



- | | | | |
|---|---------------------|---|---|
| 1 | T-Bar Rail | 4 | Slide Plate Tracks |
| 2 | Slide Plate | 5 | Ceiling Mount Rivet Hole in Locking Tab |
| 3 | Ceiling Mount Plate | | |
-

- Align the WS-AP3705i with the ceiling mount assembly so that the rivet hole on the AP is about 1" from the locking tab, then push the mounting clips on the AP bottom up through the mount slots on the ceiling mount bracket and twist the AP until the clips snap over the flanges on the end of the slots. [Figure 2-3](#) shows the AP mounting operation from a perspective above the T-bar rail, in which case the twist is clockwise. From a perspective below the AP, you are turning the AP in a counterclockwise motion.

Figure 2-3 Mounting the AP to the Ceiling Mount Assembly



- Rivet hole in locking tab

- Press the plastic rivet (included in protruded drop ceiling mount kit) through the ceiling mount locking tab ([Figure 2-3](#)) into the rivet hole on the side of the AP ([Figure 2-3](#)). Once the rivet is seated in the hole push the top towards the AP until it stops.



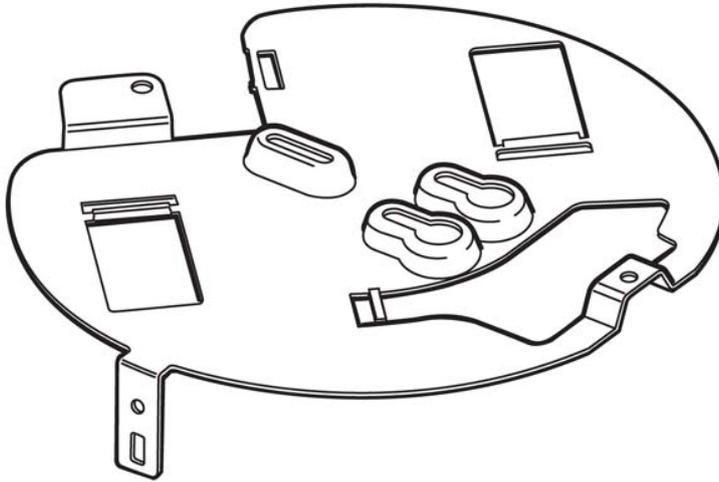
Warning: If the rivet is not inserted as described in this step, there is a risk the Enterasys Wireless WS-AP3705i will fall from the bracket.

To remove the AP from the mount plate, reverse the rivet procedure using a small screwdriver to unlock/open the rivet head.

- Make a hole through the ceiling panel closest to the power slot on the AP. Then run the Ethernet cable through the hole and into the LAN port (RJ45 Ethernet port) in the recessed connector bay.
- Replace the displaced ceiling panels.

Mounting the WS-AP3705i to a Wall

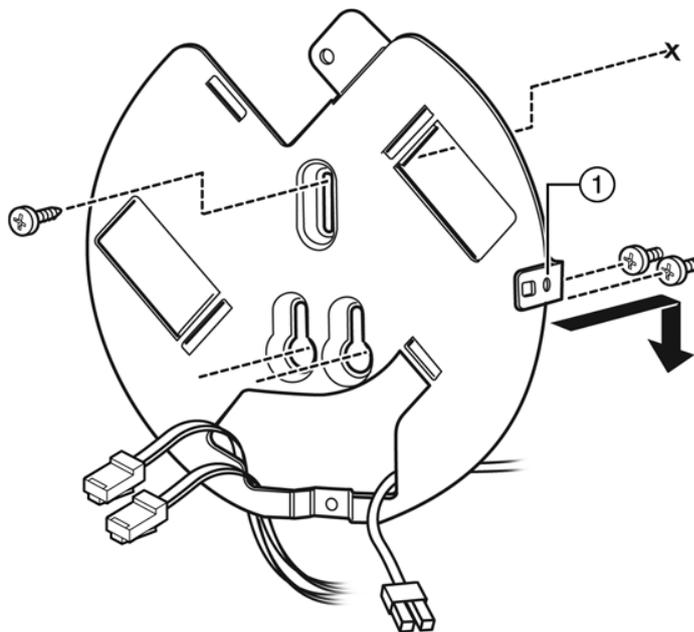
Figure 2-4 Optional Wall Mounting Bracket (WS-MB3705-01)



To attach the WS-AP3705i to a wall:

1. Determine the spot on the wall where the AP is to be mounted, preferably high up on the wall (near the ceiling for maximum radio wave dispersion) but in reach of the Ethernet cable and a wall power outlet if the application does not use Power over Ethernet.
2. Place the WS-AP3705i wall mounting bracket firmly against the wall surface.
3. Secure the bracket to the wall with three 1.5" screws and wall plugs if applicable (see [Figure 2-5](#)). Thread the Ethernet cable (and the power cord, if applicable) under the mounting bracket before tightening the screws.

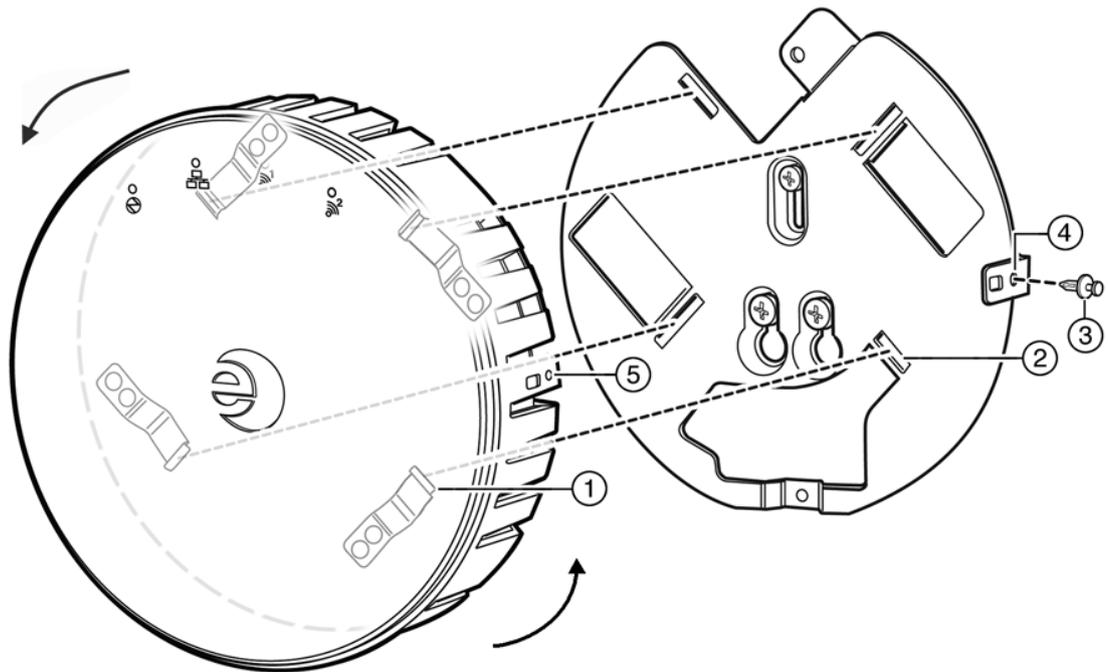
Figure 2-5 Mounting the MB3705 mounting bracket to a Wall



1 Rivet Hole in Locking Tab

4. Plug the Ethernet cable into the RJ-45 port on the back of the AP, and if applicable, plug the power cord into the power port on the back of the AP, before mounting the AP on the bracket.
5. Place the back of the AP against the mounting bracket with the mounting clips on the AP through the slots on the bracket, and the rivet hole about 1" below the locking tab. Then twist the AP counter-clockwise until the clips snap over the flanges at the end of the slots (Figure 2-6).

Figure 2-6 Attaching WS-AP3705i to Wall Mount Bracket



- | | | | |
|---|---------------------------------------|---|---------------------------|
| 1 | Mounting Clips (on back of AP) | 4 | Rivet Hole in Locking Tab |
| 2 | Flanges (on wall side of mount plate) | 5 | Rivet Slot on AP |
| 3 | Rivet | | |

6. Press the plastic rivet through the rivet hole in the locking tab into the rivet slot on the side of the AP. Then depress the top of the rivet until it is completely seated.



Warning: If the rivet is not inserted as described in this step, there is a risk the Enterasys Wireless WS-AP3705i will fall from the bracket.

To remove the AP from the mount plate, reverse the rivet procedure using a small screwdriver to unlock/open the rivet head.

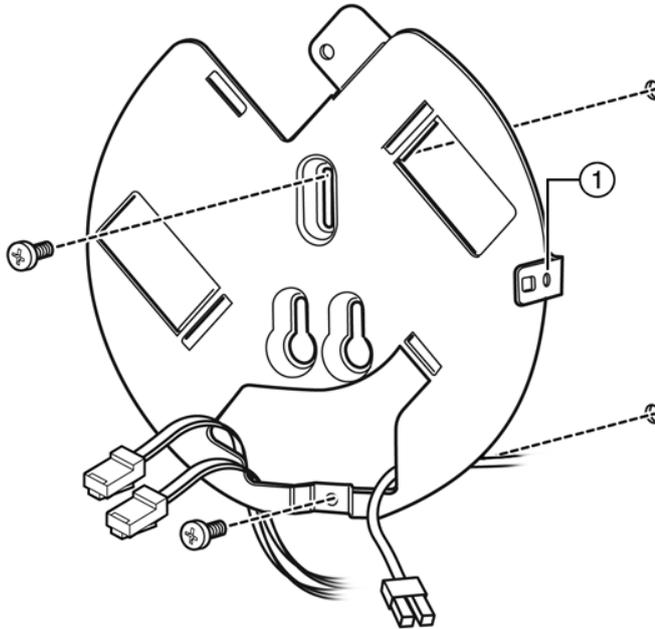
Mounting on a Junction Box

Use the wall mount bracket to mount the WS-AP3705i to a junction box.

1. Use the wall mount bracket as a template to drill shallow holes in the junction box.

- Use two machine screws to attach the wall mount plate to the junction box, putting the screws through the long oval hole and the small hole at the bottom of the plate as shown in [Figure 2-7](#).

Figure 2-7 Attaching the Wall Mount Plate to a Junction Box



1 Rivet Hole in Locking Tab

- Plug the Ethernet cable into the RJ-45 port on the back of the AP, and if applicable, plug the power cord into the power port on the back of the AP, before mounting the AP on the bracket.
- Place the back of the AP against the mounting bracket with the mounting clips through the slots on the bracket and the rivet hole about 1" from the locking tab. Then twist the AP counterclockwise until the clips snap over the flanges at the end of the slots.
- Press the included plastic rivet through the rivet hole in the locking tab into the rivet hole on the side of the AP. Then depress the top of the rivet until it is completely seated.**



Warning: If the rivet is not inserted as described in this step, there is a risk the Enterasys Wireless WS-AP3705i will fall from the bracket.

To remove the AP from the mount plate, reverse the rivet procedure using a small screwdriver to unlock/open the rivet head.

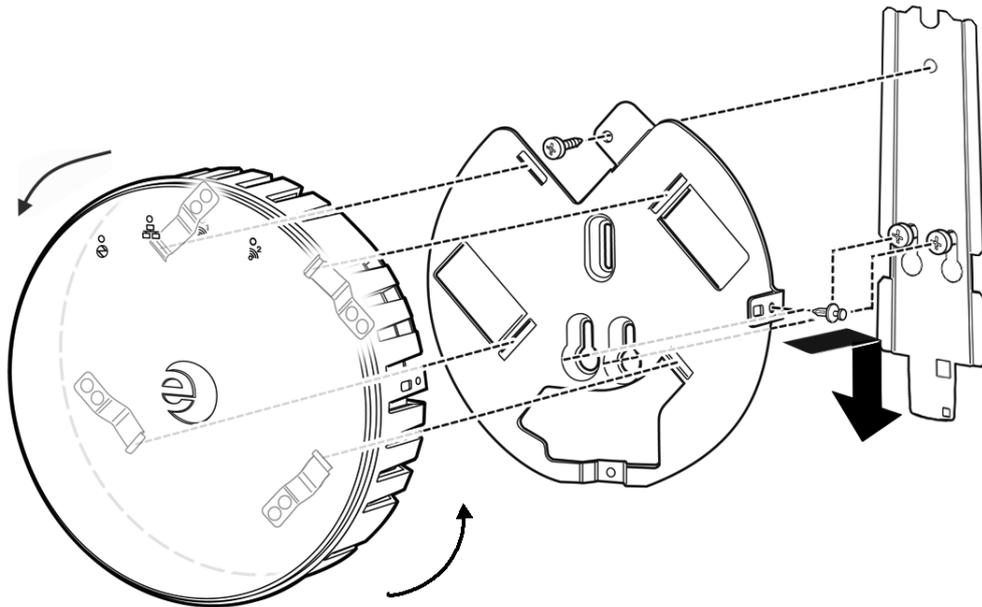
Mounting on an Existing Mount Plate

You can mount the WS-AP3705i over the mounting bracket used to mount earlier AP26xx and AP36xx models on a wall.

- Remove the older AP model from its mounting bracket plate, and disconnect the cable(s).

- Attach the WS-AP3705i mounting bracket to the older mounting bracket, with three screws through the WS-AP3705i bracket holes into the corresponding holes on the older plate (Figure 2-8).

Figure 2-8 Attaching WS-AP3705i mounting bracket to existing AP mount plate.



- Plug the Ethernet cable into the RJ-45 port on the back of the AP, and if applicable, plug the power cord into the power port on the back of the AP, before mounting the AP on the bracket.
- Place the back of the AP against the mounting bracket with the mounting clips through the slots on the bracket and the rivet hole about 1" below the locking tab. Then twist the AP counterclockwise until the clips snap over the flanges at the end of the slots.
- Press the included plastic rivet through the rivet hole in the locking tab into the rivet hole on the side of the AP. Then depress the top of the rivet until it is completely seated.**



Warning: If the rivet is not inserted as described in this step, there is a risk the Enterasys Wireless WS-AP3705i will fall from the bracket.

To remove the AP from the mount plate, reverse the rivet procedure using a small screwdriver to unlock/open the rivet head.

Network and Power Connections

LAN/Console Connections

The WS-AP3705i has both a LAN and a Console port. Refer to [Figure 1-2](#) on page 1-3 for the location of these ports. To access these ports on the WS-AP3705i, remove the AP from its mount on the ceiling or wall first. During administration and maintenance through the LAN or Console, the AP must have a power connection through either an Ethernet PoE cable or a DC power supply.

Power Connections

The WS-AP3705i can be powered in one of the following ways:

- Power over Ethernet (PoE)

Power is provided through the RJ45 Ethernet port (LAN port) on the back of the WS-AP3705i. This is the preferred method of powering the AP on ceiling and high wall installations.

- Power by external power supply (Currently,Non-functional)

Where a PoE-capable Ethernet connection is unavailable or impractical, an external 48V DC power supply may be ordered separately to power the WS-AP3705i from a standard AC wall outlet. For more information on the installation process, see the section entitled "[Connecting the DC Power Supply to the WS-AP3705i](#)" below.

Connecting the DC Power Supply to the WS-AP3705i



Note: Currently, the DC connector on the back of the WS-AP3705i is non-functional.

There is no wall mount for a DC power supply. To connect the power supply to the WS-AP3705i for everyday operation, mount the AP and plug in the power supply as described in the section, "[Mounting the WS-AP3705i to a Wall](#)," on page 2-6. If you have taken the AP off its mount for configuration and maintenance, plug the power cable from the DC power supply into the DC connector on the back of the WS-AP3705i.



Specifications

This appendix lists the specifications for the Enterasys Wireless WS-AP3705i.

Table A-1 Specifications for the WS-AP3705i

Item	Specification
Enclosure material	Metal base, plastic housing
Power source	802.3af compliant PoE PD, 48V DC input (Currently,Non-functional)
Power consumption	< 12.94W (Max.)
Outside dimensions (max)	6.62" diameter x 2" tail (including spring clips)
Antenna	4x internal antennas, 2.4GHz x 2, 5GHz x 2
Uplink Interface	GbE Ethernet x1 with PoE
RoHS compliant	Yes
Radio Configuration	IEEE 802.11a/b/h/g/n, 2.4/5GHz dual-band, Dual-radio, 2x2:2 MIMO
Operating temperature	0° C to +50° C



Regulatory Information



Warning: Warnings identify essential information. Ignoring a warning can lead to problems with the application.

This appendix provides regulatory information for the Enterasys Wireless WS-AP3705i.



Warning: Changes or modifications made to the WS-AP3705i which are not expressly approved by Enterasys could void the user's authority to operate the equipment.

Only authorized Enterasys service personnel are permitted to service the system. Procedures that should be performed only by Enterasys personnel are clearly identified in this guide.



Note: The WS-AP3705i is in compliance with the European Directive 2002/95/EC on the restriction of the use of certain hazardous substances (RoHS) in electrical and electronic equipment.

Enterasys Wireless WS-AP3705i

The following regulatory information applies to the Enterasys Wireless WS-AP3705i.

United States

FCC Declaration of Conformity Statement\

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 equipment has been tested and found to comply with the limits for a Class B 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 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.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

For operation within 5.15 ~ 5.25 GHz frequency range, it is restricted to indoor environment. This device meets all the other requirements specified in Part 15E, Section 15.407 of the FCC Rules.

USA Conformance Standards

This equipment meets the following conformance standards:

Safety

- UL 60950-1

EMC

- FCC CFR 47 Part 15, Class B

Radio transceiver

- CFR 47 Part 15.247, Subpart C
- CFR 47 Part 15.407, Subpart E

Other

- IEEE 802.11a (5 GHz)
- IEEE 802.11b/g (2.4 GHz)
- IEEE 802.11n
- IEEE 802.3af (PoE)



Warning: The WS-AP3705i must be installed and used in strict accordance with the manufacturer's instructions as described in this guide and related documentation for the device to which the WS-AP3705i is connected. Any other installation or use of the product violates FCC Part 15 regulations.

This Part 15 radio device operates on a non-interference basis with other devices operating at the same frequency when using the antennas provided or other Enterasys-certified antennas. Any changes or modifications to the product not expressly approved by Enterasys could void the user's authority to operate this device. For operation within 5.15 ~ 5.25GHz frequency range, it is restricted to indoor environment. This device meets all the other requirements specified in Part 15E, Section 15.407 of the FCC Rules.

For the product available in the USA market, only channels 1 to 11 can be operated. Selection of other channels in the 2.4 GHz band is not possible.

FCC RF 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 22 cm between the radiator & your body.

Canada

Industry Canada Compliance Statement

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.

Caution :

- (i) the device for operation in the band 5150-5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems;
- (ii) the maximum antenna gain permitted for devices in the bands 5250-5350 MHz and 5470-5725 MHz shall comply with the e.i.r.p. limit; and
- (iii) the maximum antenna gain permitted for devices in the band 5725-5825 MHz shall comply with the e.i.r.p. limits specified for point-to-point and non point-to-point operation as appropriate.
- (iv) Users should also be advised that high-power radars are allocated as primary users (i.e. priority users) of the bands 5250-5350 MHz and 5650-5850 MHz and that these radars could cause interference and/or damage to LE-LAN devices.

Avertissement:

Le guide d'utilisation des dispositifs pour réseaux locaux doit inclure des instructions précises sur les restrictions susmentionnées, notamment :

- (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) le gain maximal d'antenne permis pour les dispositifs utilisant les bandes 5250-5350 MHz et 5470-5725 MHz doit se conformer à la limite de p.i.r.e.;
- (iii) le gain maximal d'antenne permis (pour les dispositifs utilisant la bande 5725-5825 MHz) doit se conformer à la limite de p.i.r.e. spécifiée pour l'exploitation point à point et non point à point, selon le cas.
- (iv) 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 5250-5350 MHz et 5650-5850 MHz et que ces radars pourraient causer du brouillage et/ou des dommages aux dispositifs LAN-EL.

Radiation Exposure Statement:

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 22cm between the radiator & your body.

Déclaration d'exposition aux radiations:

Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 22 cm de distance entre la source de rayonnement et votre corps.

Canada Conformance Standards

This equipment meets the following conformance standards:

Safety

- C22.2 No.60950-1-03

EMC

- ICES-003, Class B

Radio transceiver

- RSS-210 (2.4 GHz and 5GHz)

Other

- IEEE 802.11a (5 GHz)
- IEEE 802.11b/g (2.4 GHz)
- IEEE 802.11n
- IEEE 802.3af (PoE)

RF Safety Distance

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 22 cm between the radiator and your body.

Déclaration d'exposition aux radiations: Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 22 cm de distance entre la source de rayonnement et votre corps.

European Community

The WS-AP3705i is designed for use in the European Union and other countries with similar regulatory restrictions where the end user or installer is allowed to configure the WS-AP3705i for

operation by entry of a country code relative to a specific country. After the country code is selected, the WS-AP3705i will use the proper frequencies and power outputs for that country code.

The WS-AP3705i is intended for indoor use and must be installed in a proper indoor location. Contact local Authority for procedure to follow and regulatory information. For more details on legal combinations of frequencies, power levels and antennas, contact Enterasys.

Declaration of Conformity with R&TTE Directive of the European Union 1999/5/EC

The following symbol indicates compliance with the Essential Requirements of the R&TTE Directive of the European Union (1999/5/EC).



Declaration of Conformity in Languages of the European Community

English	Hereby, Enterasys, declares that this Radio LAN device is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.
Finnish	Valmistaja Enterasys vakuuttaa täten että Radio LAN device tyyppinen laite on direktiivin 1999/5/EY oleellisten vaatimusten ja sitä koskevien direktiivin muiden ehtojen mukainen.
Dutch	Hierbij verklaart Enterasys dat het toestel Radio LAN device in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijn 1999/5/EG. Bij deze verklaart Enterasys dat deze Radio LAN device voldoet aan de essentiële eisen en aan de overige relevante bepalingen van Richtlijn 1999/5/EC.
French	Par la présente Enterasys déclare que l'appareil Radio LAN device est conforme aux exigences essentielles et aux autres dispositions pertinentes de la directive 1999/5/CE. Par la présente, Enterasys déclare que ce Radio LAN device est conforme aux exigences essentielles et aux autres dispositions de la directive 1999/5/CE qui lui sont applicables.
Swedish	Härmed intygar Enterasys att denna Radio LAN device står i överensstämmelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiv 1999/5/EG.
Danish	Undertegnede Enterasys erklærer herved, at følgende udstyr Radio LAN device overholder de væsentlige krav og øvrige relevante krav i direktiv 1999/5/EF.
German	Hiermit erkläre Enterasys die Übereinstimmung des "WLAN Wireless Controller bzw. Access Points" mit den grundlegenden Anforderungen und den anderen relevanten Festlegungen der Richtlinie 1999/5/EG.
Greek	ΜΕ ΤΗΝ ΠΑΡΟΥΣΑ Enterasys ΔΗΛΩΝΕΙ ΟΤΙ Radio LAN device ΣΥΜΜΟΡΦΩΝΕΤΑΙ ΠΡΟΣ ΤΙΣ ΟΥΣΙΩΔΕΙΣ ΑΠΑΙΤΗΣΕΙΣ ΚΑΙ ΤΙΣ ΛΟΙΠΕΣ ΣΧΕΤΙΚΕΣ ΔΙΑΤΑΞΕΙΣ ΤΗΣ ΟΔΗΓΙΑΣ 1999/5/ΕΚ.
Icelandic	Enterasys lýsir her með yfir að þessi bunadur, Radio LAN device, uppfyllir allar grunnkröfur, sem gerdar eru í R&TTE tilskipun ESB nr 1999/5/EC.
Italian	Con la presente Enterasys dichiara che questo Radio LAN device è conforme ai requisiti essenziali ed alle altre disposizioni pertinenti stabilite dalla direttiva 1999/5/CE.
Spanish	Por medio de la presente Enterasys declara que el Radio LAN device cumple con los requisitos esenciales y cualesquiera otras disposiciones aplicables o exigibles de la Directiva 1999/5/CE.
Portuguese	Enterasys declara que este Radio LAN device está conforme com os requisitos essenciais e outras disposições da Directiva 1999/5/CE.
Malti	Hawnhekk, Enterasys, jiddikjara li dan Radio LAN device jikkonforma mal-htigijiet essenzjali u ma provvedimenti oħrajn rilevanti li hemm fid-Dirrettiva 1999/5/EC.

New Member States Requirements of Declaration of Conformity

Estonian	Käesolevaga kinnitab Enterasys seadme Radio LAN device vastavust direktiivi 1999/5/EÜ põhinõuetele ja nimetatud direktiivist tulenevatele teistele asjakohastele sätetele.
Hungary	Alulírott, Enterasys nyilatkozom, hogy a Radio LAN device megfelel a vonatkozó alapvető követelményeknek és az 1999/5/EC irányelv egyéb előírásainak.
Slovak	Enterasys týmto vyhlasuje, že Radio LAN device spĺňa základné požiadavky a všetky príslušné ustanovenia Smernice 1999/5/ES.
Czech	Enterasys tímto prohlašuje, že tento Radio LAN device je ve shodě se základními požadavky a dalšími příslušnými ustanoveními směrnice 1999/5/ES."
Slovenian	Šiuo Enterasys deklaruoja, kad šis Radio LAN device atitinka esminius reikalavimus ir kitas 1999/5/EB Direktyvos nuostatas.
Latvian	Ar šo Enterasys deklarē, ka Radio LAN device atbilst Direktīvas 1999/5/EK būtiskajām prasībām un citiem ar to saistītajiem noteikumiem
Lithuanian	Enterasys deklaruoja, kad Radio LAN device atitinka 1999/5/EC Direktyvos esminius reikalavimus ir kitas nuostatas".
Polish	Niniejszym, Enterasys, deklaruję, że Radio LAN device spełnia wymagania zasadnicze oraz stosowne postanowienia zawarte Dyrektywie 1999/5/EC.

European Conformance Standards

This equipment meets the following conformance standards:

Safety

- 2006/95/EC Low Voltage Directive (LVD)
- IEC/EN 60950-1 + National Deviations

EMC (Emissions / Immunity)

- 2004/108/EC EMC Directive
- EN 55011/CISPR 11, Class B, Group 1 ISM
- EN 55022/CISPR 22, Class B
- EN 55024/CISPR 24, includes IEC/EN 61000-4-2,3,4,5,6,11
- EN 61000-3-2 and -3-3 (Harmonics and Flicker)
- EN 60601-1-2 (EMC immunity for medical equipment)
- EN 50385 (EMF)
- ETSI/EN 301 489-1 & -17

Radio transceiver

- R&TTE Directive 1999/5/EC

- ETSI/EN 300 328 (2.4 GHz)
- ETSI/EN 301 893 (5 GHz)

Other

- IEEE 802.11a (5 GHz)
- IEEE 802.11b/g (2.4 GHz)
- IEEE 802.11n
- IEEE 802.3af (PoE)

RoHS

- European Directive 2002/95/EC

Conditions of use in the European Community

Some EU countries allow outdoor operation with limitations and restrictions, which are described in this section. It is the responsibility of the end user to ensure operation in accordance with these rules, frequencies, and transmitter power output. The WS-AP3705i must not be operated until configured for the customer's geographic location.



Caution: The user or installer is responsible to ensure that the WS-AP3705i is operated according to channel limitations, indoor / outdoor restrictions, license requirements, and within power level limits for the current country of operation. A configuration utility has been provided with the Wireless AP to allow the end user to check the configuration and make necessary configuration changes to ensure proper operation in accordance with the spectrum usage rules for compliance with the European R&TTE directive 1999/5/EC.



Caution: Please follow the instructions in this user guide to configure the WS-AP3705i.

- Each Wireless AP is configured with a default group of settings. There is the ability to change these settings. The user or installer is responsible to ensure that each WS-AP3705i is configured properly.
- The software within the Wireless AP automatically limits the allowable channels and output power determined by the selected country code. Selecting the incorrect country of operation or misidentifying the antenna being used, may result in illegal operation and may cause harmful interference to other systems.
- This device employs a radar detection feature required for European Community operation in the 5 GHz band. This feature is automatically enabled when the country of operation is correctly configured for any European Community country. The presence of nearby radar operation may result in temporary interruption of operation of this device. The radar detection feature will automatically restart operation on a channel free of radar.
- The 5 GHz Turbo Mode feature is not enabled for use on the WS-AP3705i.
- The 5150- 5350 MHz band, channels 36, 40, 44, 48, 52, 56, 60, or 64, are restricted to indoor use only.
- The 2.4 GHz band, channels 1 - 13, may be used for indoor use but there may be some channel restrictions.
- In France, outdoor operation is not permitted using the 2.4 - 2.454 GHz band.

European Spectrum Usage Rules

The AP configured with approved internal antennas can be used for indoor transmissions throughout the European community as displayed in [Table B-1](#). Some restrictions apply in Belgium, France, Greece, and Italy.

Table B-1 European Spectrum Usage Rules

Country	5.15-5.25 (GHz) Channels: 36,40,44,48	5.25-5.35 (GHz) Channels: 52,56,60,64	5.47-5.725 (GHz) Channels: 100,104,108,112,116, 132,136,140	2.4-2.4835 (GHz) Channels: 1 to 13 (Except Where Noted)
Austria	Indoor only	Indoor only	Indoor or outdoor	Indoor or outdoor
Belgium	Indoor only	Indoor only	Indoor or outdoor *	Indoor or outdoor
Bulgaria	Indoor only	Indoor only	Indoor or outdoor	Indoor or outdoor
Croatia	Indoor only	Indoor only	Indoor or outdoor	Indoor or outdoor
Cyprus	Indoor only	Indoor only	Indoor or outdoor	Indoor or outdoor
Czech Rep.	Indoor only	Indoor only	Indoor or outdoor	Indoor or outdoor
Denmark	Indoor only	Indoor only	Indoor or outdoor	Indoor or outdoor
Estonia	Indoor only	Indoor only	Indoor or outdoor	Indoor or outdoor
Finland	Indoor only	Indoor only	Indoor or outdoor	Indoor or outdoor
France	Indoor only	Indoor only	Indoor or outdoor	Indoor only
Germany	Indoor only	Indoor only	Indoor or outdoor	Indoor or outdoor
Greece	Indoor only	Indoor only	Indoor (Outdoor w/License)	Indoor (Outdoor w/license)
Hungary	Indoor only	Indoor only	Indoor or outdoor	Indoor or outdoor
Iceland	Indoor only	Indoor only	Indoor or outdoor	Indoor or outdoor
Ireland	Indoor only	Indoor only	Indoor or outdoor	Indoor or outdoor
Italy	Indoor only	Indoor only	Indoor or outdoor	Indoor (Outdoor w/license)
Latvia	Indoor only	Indoor only	Indoor or outdoor	Indoor or outdoor
Liechtenstein	Indoor only	Indoor only	Indoor or outdoor	Indoor or outdoor
Lithuania	Indoor only	Indoor only	Indoor or outdoor	Indoor or outdoor
Luxembourg	Indoor only	Indoor only	Indoor or outdoor	Indoor or outdoor
Malta	Indoor only	Indoor only	Indoor or outdoor	Indoor or outdoor
Netherlands	Indoor only	Indoor only	Indoor or outdoor	Indoor or outdoor
Norway	Indoor only	Indoor only	Indoor or outdoor	Indoor or outdoor
Poland	Indoor only	Indoor only	Indoor or outdoor	Indoor or outdoor
Portugal	Indoor only	Indoor only	Indoor or outdoor	Indoor or outdoor
Romania	Indoor only	Indoor only	Indoor or outdoor	Indoor or outdoor
Slovak Rep.	Indoor only	Indoor only	Indoor or outdoor	Indoor or outdoor
Slovenia	Indoor only	Indoor only	Indoor or outdoor	Indoor or outdoor
Spain	Indoor only	Indoor only	Indoor or outdoor	Indoor or outdoor
Sweden	Indoor only	Indoor only	Indoor or outdoor	Indoor or outdoor
Switzerland	Indoor only	Indoor only	Indoor or outdoor	Indoor or outdoor
Turkey	Indoor only	Indoor only	Indoor or outdoor	Indoor or outdoor
U.K	Indoor only	Indoor only	Indoor or outdoor	Indoor or outdoor

Certifications of Other Countries

The WS-AP3705i has been certified for use in various other countries. Once the correct country code is selected, the Wireless AP automatically uses the proper frequencies and power outputs for that country code.

It is the responsibility of the end user to select the proper country code for the country within which the device will be operated, or run the risk violating local laws and regulations.

Other Country Specific Compliance Standards, Approvals and Declarations

- IEC 60950-1 CB Scheme + National Deviations
- AS/NZS 60950.1 (Safety)
- AS/NZS 3548 (Emissions via EU standards – ACMA)
- AS/NZS 4288 (Radio via EU standards)
- EN 300 328 (2.4 GHz)
- EN 301 893 (5 GHz)
- EN 301 489-1 & -17 (RLAN)
- IEEE 802.11a (5 GHz)
- IEEE 802.11b/g (2.4 GHz)
- IEEE 802.11n
- IEEE 802.3af (PoE)

RF Safety Distance

The antennas used for this transmitter must be installed to provide a separation distance of at least 22 cm from all persons and must not be co-located or operating in conjunction with another antenna or transmitter.

以下警語適用台灣地區

經型式認證合格之低功率射頻電機，非經許可，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。

低功率射頻電機之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。前項合法通信，指依電信法規定作業之無線電通信。

低功率射頻電機須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

5.25 ~ 5.35GHz 限室內使用