

Installing the Enterasys Wireless Outdoor WS-AP3767e Access Point

Electrical Hazard: Only qualified personnel should perform installation procedures.

For complete installation instructions and information about the Enterasys Wireless Outdoor WS-AP3767e access point, see the *Enterasys Wireless Outdoor Access Points Installation Guide* at <https://extranet.enterasys.com/downloads>.

Overview of the WS-AP3767e

The WS-AP3767e enables you to extend your Wireless LAN beyond the boundaries of indoor locations. It is delivered in a rugged enclosure that is resistant to harsh outdoor conditions and extreme temperatures. Using the advanced wireless distribution mesh feature of Enterasys Wireless LAN, the WS-AP3767e can extend your Wireless LAN to outdoor locations without Ethernet cabling. A mounting bracket is available for quick and easy mounting of the AP to walls and poles.

Figure 1 Enterasys Wireless Outdoor WS-AP3767e



The WS-AP3767e has two radios that support 802.11n standards, and has full backward compatibility with legacy 802.11a/b/g standards. The AP offers support for a variety of external antennas, providing range and coverage versatility. The WS-AP3767e provides two SFP fiber transceiver sockets for LAN connectivity.

The WS-AP3767e interoperates fully with the Enterasys Wireless LAN, including support for VoWLAN, branch office mode, guest services, RTLS, availability and mobility features.

Note: The WS-AP3767e requires configuration and control from an Enterasys Wireless Controller.

Powering the WS-AP3767e

You can power the WS-AP3767e in one of the following ways:

• Power over Ethernet: Adding PoE injector

You can provide power to the Ethernet cable with a PoE injector. The PoE injector must be 802.3at compliant. The PoE injector is not provided with the AP. For installation instructions, refer to the *Enterasys Wireless Outdoor Access Points Installation Guide*.

• Power by external power supply

Either of two user-supplied external power supply types can be used if PoE is unavailable:

- Direct 24V DC supply - direct voltage

- attach with the 2-pin plug included with the AP.
- 100 to 240V AC supply - alternating voltage
- requires optional AC power supply adapter (WS-PS376X-MR). See your Enterasys sales representative for purchasing details.

For power supply adapter installation instructions, refer to the *Enterasys Wireless Outdoor Access Points Installation Guide*.

Mounting and Connecting the WS-AP3767e

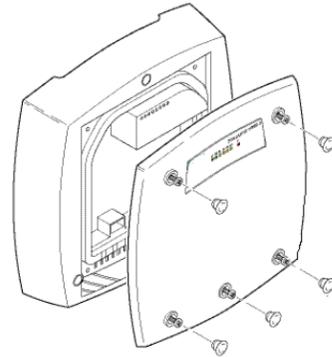
Refer to the *Enterasys Wireless Outdoor Access Points Installation Guide* for detailed installation instructions. The installation of the WS-AP3767e must be performed by a professional installer to ensure proper operation and compliance with safety guidelines.

An optional mounting bracket set (WS-MB376X-01) is available for purchase from Enterasys Networks.

Mounting the WS-AP3767e:

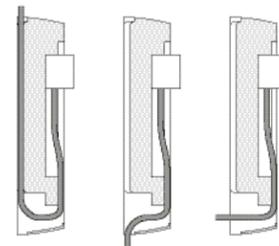
1. Remove the housing cover by removing the sealing caps and loosening the screws in the cover.

Figure 2 Removing the Housing Cover



2. Thread the power supply cables, Ethernet cable, and external antenna cables into the Outdoor AP as in one of the options in [Figure 3](#).

Figure 3 Cabling Options



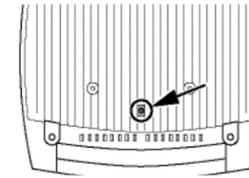
The cabling of the WS-AP3767e is fed through the rear of the device. The housing seal is effective only when it is not subjected to spray water. When mounted in any other way, an additional cover plate must be screwed to the mounting plate. For more on the cover plate, see the *Enterasys Wireless Outdoor Access Points Installation Guide*.



Warning: If the cable feed through on the rear of the device is exposed to spray water, degree of protection IP65 no longer applies. In this case, water can penetrate the device and establish a live connection to the line voltage. There is then a risk of electric shock. Ensure that you use the cover plate for the cable feed through if you are not mounting the AP on a wall.

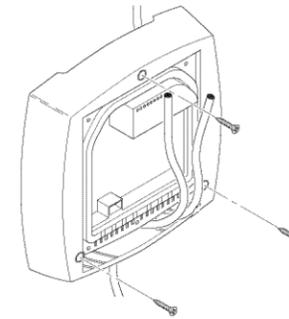
3. Connect the ground cable before you mount the WS-AP3767e ([Figure 4](#)).

Figure 4 WS-AP3767e — Chassis Ground Connector On Rear



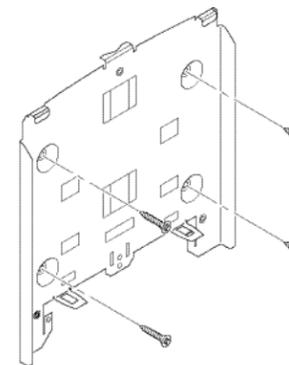
4. Mount the AP directly to the wall, or use the optional mount plate. On wall mounts, secure the AP with three screws ([Figure 5](#)). Screws are not supplied with the device. The type and length of the screws depend on the type of wall.

Figure 5 WS-AP3767e — Wall Mount Without Mount Plate



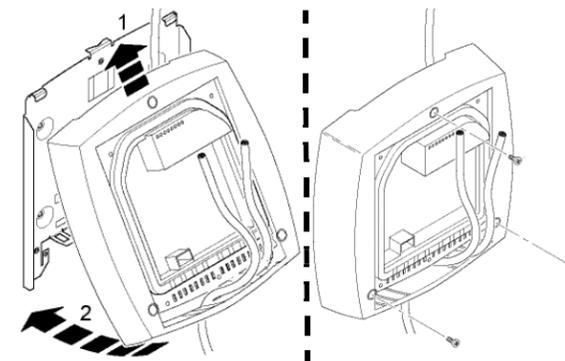
–On a wall, you can screw the AP directly to the wall without a mount plate ([Figure 5](#)).

Figure 6 WS-AP3767e — Attach Mount Plate to Wall



–On a wall using the optional mount plate. First attach the mounting plate to the wall with four screws ([Figure 6](#)). Then mount the WS-AP3767e to the mounting plate on the wall ([Figure 7](#)), and secure using three screws as shown.

Figure 7 WS-AP3767e — Attach AP to Mount Plate

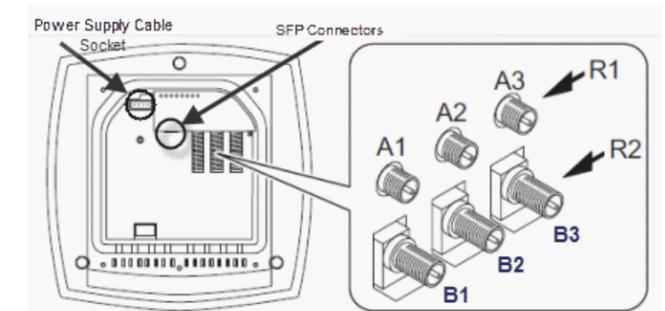


- Mount to a pole or mast using the fittings provided in the mount bracket kit (WS-MB376X-01) as described in the *Enterasys Wireless Outdoor Access Points Installation Guide*.

- Mount to an S7 standard rail or a DIN rail as described in the *Enterasys Wireless Outdoor Access Points Installation Guide*.

5. Insert the SFP module(s). Connect cables pre-assembled with a connector by inserting the connector into the appropriate SFP module.
6. Install the external antennas intended for area coverage. External antenna cables attach to the Reverse Polarity SMA connectors on the AP. ([Figure 8](#)) To connect an antenna or LMR cable to the AP you need to use a pigtail connector. Secure antenna cables by tightening the sleeve nut of the connector (key size SW8). For information about antenna selection and installation, refer to the *Enterasys Wireless External Antenna Site Preparation and Installation Guide*.

Figure 8 Ports for External Antennas, SFP Connections, and Power Supply with the Housing Cover Removed



Note: “R1” is mapped to Radio 1 and “R2” is mapped to Radio 2 on the user interface of the Enterasys Wireless Controller. On the user interface of the Enterasys Wireless Controller, the Antenna “A1” and “B1” connectors are mapped to the Left antenna, the Antenna “A2” and “B2” connectors are mapped to the Middle antenna, and the “A3” and “B3” connectors are mapped to the Right antenna.

7. Replace the cover before powering on the device.

Regulatory and Compliance Information

Federal Communications Commission (FCC) Notice:

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.



Warning: Changes or modifications made to this device which are not expressly approved by the party responsible for compliance could void the user’s authority to operate the equipment.

Industry Canada Notice:

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations for the Canadian Department of Communications.

Le présent appareil numérique n’émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la class B prescrites dans le Règlement sur le brouillage radioélectrique édicté par le ministère des Communications du Canada.

Refer to the *Enterasys Wireless Outdoor Access Points Installation Guide*, Chapter 5, “Regulatory Information,” for complete regulatory information.

Safety Guidelines

This section contains notices that you must adhere to ensure your personal safety and to prevent any damage to the equipment.

Qualified Personnel:



Electrical Hazard: Only qualified personnel should perform installation procedures. Within the context of the safety notes in this documentation qualified persons are defined as persons who are authorized to commission, ground and label devices, systems and circuits in accordance with established safety practices and standards. A qualified person understands the requirements and risks involved with installing outdoor electrical equipment in accordance with national codes.



Professional Installation Notice: To comply with FCC part 15 rules in the United States, the system must be professionally installed to ensure compliance with the Part 15 certification. It is the responsibility of the operator and professional installer to ensure that only certified systems are deployed in the United States. The use of the system in any other combination (such as co-located antennas transmitting the same information) is expressly forbidden.

Grounding Warning:



Warning: To operate the Enterasys Wireless Outdoor AP3765 safely, the chassis ground connector must have a suitable cable connected. Do not use the Enterasys Wireless Outdoor AP3765 without a ground cable connected.

Lightning Protection Warning:



Warning: Antennas installed outdoors must be within the area covered by a lightning protection system. Make sure that all conducting systems entering from outdoors can be protected by a lightning protection potential equalization system. When implementing your lightning protection concept, make sure you adhere to the VDE 0182 or IEC 62305 standard. The AP3765 has a built-in lightning protector; no external lightning protector is required. You must, however, note that the lightning protector is not an adequate protection against a lightning strike. The lightning protector only works within the framework of a comprehensive lightning protection concept. If you have questions, ask a qualified specialist company.

产品说明书附件 Supplement to Product Instructions

| 部件名称 (Parts) | 有毒有害物质或元素 (Hazardous Substance) | | | | | |
|---|---------------------------------|-----------|-----------|----------------------------|---------------|-----------------|
| | 铅 (Pb) | 汞 (Hg) | 镉 (Cd) | 六价铬 (Cr ⁶⁺) | 多溴联苯 (PBB) | 多溴二苯醚 (PBDE) |
| 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) | ○ | ○ | × | × | ○ | ○ |

○: 表示该有毒有害物质在该部件所有均质材料中的含量均在 SJ/T 11363-2006 标准规定的限量要求以下。
Indicates that the concentration of the hazardous substance in all homogeneous materials in the parts is below the relevant threshold of the SJ/T 11363-2006 standard.

×: 表示该有毒有害物质至少在该部件的某一均质材料中的含量超出 SJ/T 11363-2006 标准规定的限量要求。
Indicates that the concentration of the hazardous substance of at least one of all homogeneous materials in the parts is above the relevant threshold of the SJ/T 11363-2006 standard.

对销售之目的所售产品, 本表显示, 凯创供应链的电子产品信息产品可能包含这些物质。注意: 在所售产品中可能会也可能不会含有所有列出的部件。
This table shows where these substances may be found in the supply chain of Enterasys' electronic information products, as of the date of sale of the enclosed product. Note that some of the component types listed above may or may not be a part of the enclosed product.

除非另外特别的标注, 此标志为针对所涉产品的环保使用期标志。某些零部件会有一个不同的环保使用期(例如, 电池单元模块)贴在其产品上。
此环保使用期限只适用于产品是在产品手册中所规定的条件下工作。
The Environmentally Friendly Use Period (EFUP) for all enclosed products and their parts are per the symbol shown here, unless otherwise marked. Certain parts may have a different EFUP (for example, battery modules) and so are marked to reflect such. The Environmentally Friendly Use Period is valid only when the product is operated under the conditions defined in the product manual.



Hazardous Substances

This product complies with the requirements of Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

European Waste Electrical and Electronic Equipment (WEEE) Notice



In accordance with Directive 2011/65/EU of the European Parliament on waste electrical and electronic equipment (WEEE):

- The symbol above indicates that separate collection of electrical and electronic equipment is required and that this product was placed on the European market after August 13, 2005, the date of enforcement for Directive 2011/65/EU.
- When this product has reached the end of its serviceable life, it cannot be disposed of as unsorted municipal waste. It must be collected and treated separately.
- It has been determined by the European Parliament that there are potential negative effects on the environment and human health as a result of the presence of hazardous substances in electrical and electronic equipment.
- It is the users' responsibility to utilize the available collection system to ensure WEEE is properly treated. For information about the available collection system, please contact Enterasys Customer Support at 353 61 705500 (Ireland).

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 tyypin 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 thessi 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** Hawnehkk, Enterasys, jiddikjara li dan Radio LAN device jikkonforma mal-htigijiet essenzjali u ma provvedimenti oħrajn rilevanti li hemm fid-Direttiva 1999/5/EC.

Notice

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Enterasys Wireless

Outdoor Access Point

Quick Reference

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