
Quick Start Guide

IEEE 802.11b/g/n Enterprise Access Point

WAP3110-L

The WAP3110-L is a IEEE 802.11b/g/n access point (AP) that is designed to deliver high-performance wireless services for clients in an enterprise environment. Housed in a compact enclosure, the unit includes its own built-in options for mounting on a wall, or suspended ceiling T-rail. The unit can be powered through a PoE cable connection from a PoE network switch, or from its AC power adapter.

In addition, the AP supports network management from an SMC WAC4502 wireless access controller through the Control and Provisioning of Wireless Access Points (CAPWAP) protocol.



NOTE: For detailed access point (AP) installation information, refer to the *Installation Guide*, which is on the Documentation CD included with the AP.

NOTE: For Safety and Regulatory information, refer to the *Safety and Regulatory Information* document included with the AP.

The AP includes its own built-in features for mounting the unit to a wall or suspended ceiling T-rail.



Caution: The planning and installation of the AP requires professional personnel that are trained in the installation of radio transmitting equipment. The user is

responsible for compliance with local regulations concerning items such as antenna power, use of lightning arrestors, grounding, and radio mast or tower construction. Therefore, it is recommended to consult a professional contractor knowledgeable in local radio regulations prior to equipment installation.

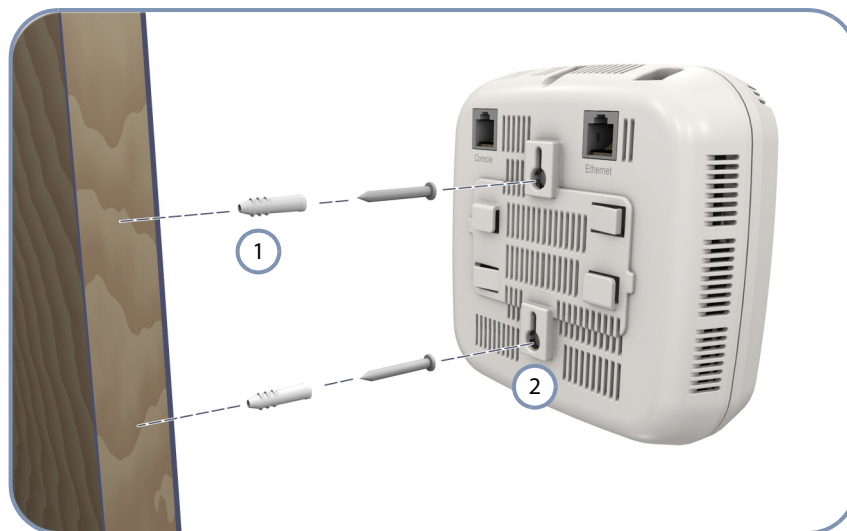
Follow these steps to install the AP:

1. Unpack the AP

- ◆ WAP3110-L Enterprise Access Point
- ◆ AC Power adapter
- ◆ Console cable (RJ-45 to DB-9)
- ◆ Quick Start Guide (this guide)
- ◆ Regulatory and Safety Information
- ◆ Documentation CD — includes *Installation Guide*

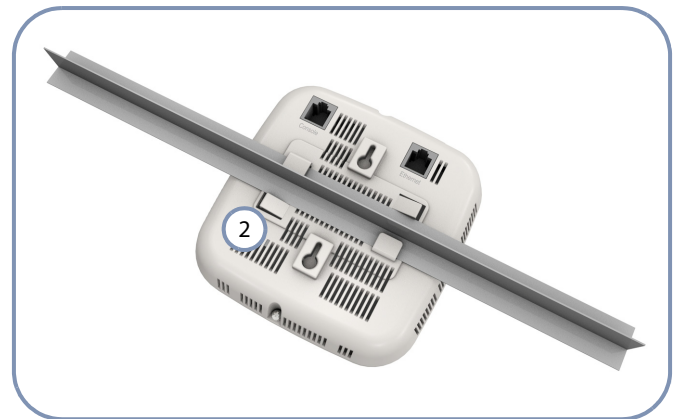
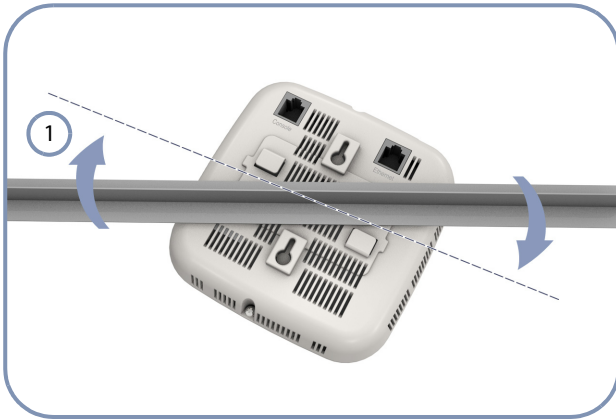
2. Mount the AP

After planning your installation, mount the unit on a wall or suspended ceiling T-rail.



.Mounting on a Wall

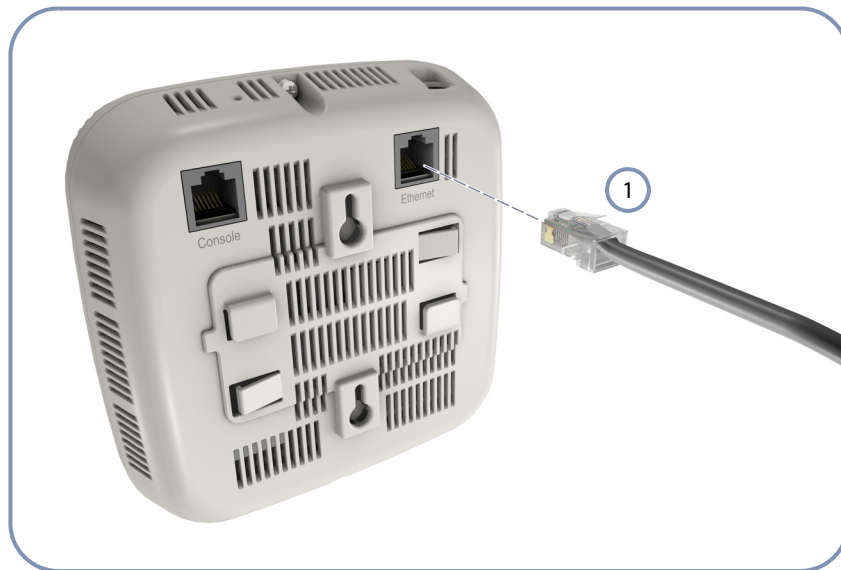
- 1 Set two screws in the wall 6.2 mm (2.4 in.) apart.
- 2 Slide the AP's wall mounting slots down onto the screws so that the unit is secure.



Mounting on a Ceiling T-rail

- 1 Position the AP's ceiling-mount clip holders on either side of the T-rail.
- 2 Turn the AP until the two clips lock the AP to the T-rail.

3. Connect Cables Connect network cable to the RJ-45 port for your network connection. The RJ-45 port connection can also provide PoE power to the unit.



- 1 Connect Category 5e or better cable to the RJ-45 port.

4. Connect Power If you do not power the unit using PoE, connect the AC power adapter to the AP and to an AC power source.



- ① Connect the power adapter to the power socket.
- ② Connect the power adapter to a nearby AC power source.

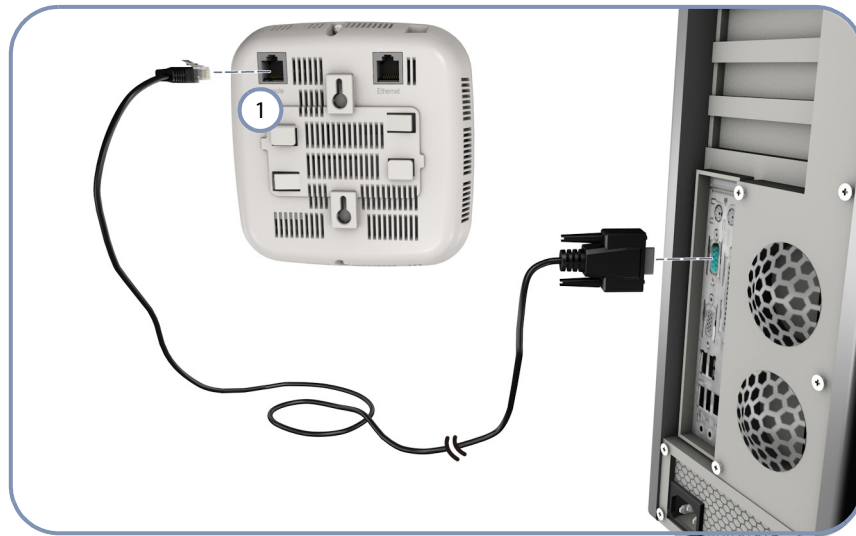
5. Verify AP Operation Verify basic AP operation by checking the system LEDs.

The Power LED should be on green and the Network LED on or flashing amber.



- ① Network Link/Activity
- ② Power/Diagnostic

- 6. Connect to the Console Port** To make initial configuration changes to the AP, connect a PC to the AP's console port using the included console cable.



1 Console Port

From a PC running VT-100 terminal emulator software, use the following settings:

- ◆ Baud rate — 115,200 bps
- ◆ Character Size — 8 Characters
- ◆ Parity — None
- ◆ Stop bit — One
- ◆ Data bits — 8
- ◆ Flow control — none

Log in to the command-line interface (CLI) using default settings:

- ◆ Login Name — admin
- ◆ Password — *null* (there is no default password)

For information on manually configuring an IP address for the AP, refer to the *Installation Guide*, which is on the Documentation CD included with the AP.

For further information on AP configuration and CLI commands, refer to the *Management Guide*, which is on the Documentation CD included with the AP.

Hardware Specifications

Item	Specification
Chassis Specifications	
Size	W x D x H: 140 x 140 x 47.8 mm (5.51 x 5.51 x 1.88 inches)
Weight	500 g (1.10 lbs)
Temperature	Operating: 0 °C to 40 °C (32 °F to 104 °F) Storage: -20 °C to 70 °C (-4 °F to 158 °F)
Humidity	Operating: 5% to 95% (non-condensing)
Network Interfaces	
Ports	One RJ-45 Port: 1000BASE-T, PoE (PD)
2.4GHz Radio	IEEE 802.11b/g/n
Radio Frequencies	2400 ~ 2483.5 MHz 2412 ~ 2472 MHz
Power Supply Specifications	
PoE Input Power	48 VDC, 0.3A
AC Power Adapter	AC Input: 100 ~ 240 VAC DC Output: 12 VDC, 2 A
Power Consumption	22.5 W maximum
Regulatory Compliances	
Radio	ETSI 300 328 (802.11b/g) ETSI 301 893 (802.11a Full range) ETSI 301 489 (DC power) FCC Part 15C 15.247/15.207 (2.4-2.4835GHz) NCC LP0002 (2.4-2.4835GHz)
Emissions	EN 55022:2007, Class A/B IEC 61000-3-2/3 FCC Class B Part 15 CNS13438
Immunity	EN 55024:2001 + A2:2003 IEC 61000-4-2/3/4/5/6/8/11
Safety	CSA c us (CSA/UL60950-1) CB (IEC60950-1)

Safety and Regulatory Information

IEEE 802.11b/g/n Enterprise Access Point

WAP3110-L

This document provides information on switch safety, regulatory statements and compliances. It includes these sections:

- ◆ “Compliances and Safety Statements” on page 7
- ◆ “Warnings and Cautionary Messages” on page 12

Compliances and Safety Statements

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

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 20 cm between the radiator and your body.

NCC (Taiwan)

低功率電波輻射性電機管理辦法：

第十二條：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。

第十四條：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。

CE Mark CE Mark Declaration of Conformance for EMI and Safety (EEC)

This is a class B product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

National Restrictions

This device is intended for home and office use in all EU countries (and other countries following the EU directive 1999/5/EC) without any limitation except for the countries mentioned below:

Country	Restriction	Reason/Remark
Bulgaria	None	General authorization required for outdoor use and public service
France	Outdoor use limited to 10 mW e.i.r.p. within the band 2454-2483.5 MHz	Military Radiolocation use. Refarming of the 2.4 GHz band has been ongoing in recent years to allow current relaxed regulation. Full implementation planned 2012
italy	None	If used outside of own premises, general authorization is required
Luxembourg	None	General authorization required for network and service supply(not for spectrum)
Norway	Implemented	This subsection does not apply for the geographical area within a radius of 20 km from the centre of Ny-Ålesund
Russian Federation	None	Only for indoor applications



Note: Do not use the product outdoors in France.

Europe - EU Declaration of Conformity

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:

- ◆ EN 60950-1:2006 + A11: 2009
Safety of Information Technology Equipment.
- ◆ EN 300 328 V1.7.1: 2006-10
Electromagnetic compatibility and Radio spectrum Matters (ERM); Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz ISM band and using wide band modulation techniques; Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive.
- ◆ EN 301 489-17 V1.8.1/ 2008-04
EN 301 489-17 V2.1.1/ 2009-05
Electromagnetic compatibility and Radio spectrum Matters (ERM);
Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions for 2.4 GHz wideband transmission systems.
- ◆ EN 55022: 2006 + A1: 2007
Limits and methods of measurement of radio disturbance characteristics of information technology equipment.
- ◆ EN 55024: 1998 + A1: 2001 + A2: 2003
Information technology equipment immunity characteristics limits and methods of measurement.
- ◆ EN 62311: 2008
Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz - 300 GHz).

This device is a 2.4 GHz wideband transmission system (transceiver), intended for use in all EU member states and EFTA countries, except in France and Italy where restrictive use applies.

In Italy the end-user should apply for a license at the national spectrum authorities in order to obtain authorization to use the device for setting up outdoor radio links and/or for supplying public access to telecommunications and/or network services.

This device may not be used for setting up outdoor radio links in France and in some areas the RF output power may be limited to 10 mW EIRP in the frequency range of 2454 - 2483.5 MHz. For detailed information the end-user should contact the national spectrum authority in France.



This equipment may be operated in:



Bulgarian Български	С настоящето, SMC декларира, че това безжично устройство е в съответствие със съществените изисквания и другите приложими разпоредби на Директива 1999/5/EC.
Czech Česky	SMC tímto prohlašuje, že tento Radio LAN device je ve shodě se základními požadavky a dalšími příslušnými ustanoveními směrnice 1999/5/ES.
Danish Dansk	Undertegnede SMC erklærer herved, at følgende udstyr Radio LAN device overholder de væsentlige krav og øvrige relevante krav i direktiv 1999/5/EF
Dutch Nederlands	Hierbij verklaart SMC 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 SMC dat deze Radio LAN device voldoet aan de essentiële eisen en aan de overige relevante bepalingen van Richtlijn 1999/5/EC.
English	Hereby, SMC, declares that this Radio LAN device is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.
Estonian Eesti	Käesolevaga kinnitab SMC seadme Radio LAN device vastavust direktiivi 1999/5/EÜ põhinõuetele ja nimetatud direktiivist tulenevatele teistele asjakohastele sätetele.
Finnish Suomi	Valmistaja SMC vakuuttaa täten että Radio LAN device tyyppinen laite on direktiivin 1999/5/EY oleellisten vaatimusten ja sitä koskevien direktiivin muiden ehtojen mukainen.
French Français	Par la présente SMC déclare que l'appareil Radio LAN device est conforme aux exigences essentielles et aux autres dispositions pertinentes de la directive 1999/5/CE
German Deutsch	Hiermit erklärt SMC, dass sich dieser/diese/dieses Radio LAN device in Übereinstimmung mit den grundlegenden Anforderungen und den anderen relevanten Vorschriften der Richtlinie 1999/5/EG befindet". (BMW) Hiermit erklärt SMC die Übereinstimmung des Gerätes Radio LAN device mit den grundlegenden Anforderungen und den anderen relevanten Festlegungen der Richtlinie 1999/5/EG. (Wien)
Greek Ελληνική	με την παρούσα SMC δηλώνει ότι radio LAN device συμμορφώνεται προς τις ουσιαστικές απαιτήσεις και τις λοιπές σχετικές διατάξεις της οδηγίας 1999/5/εκ.
Hungarian Magyar	Alulírott, SMC nyilatkozom, hogy a Radio LAN device megfelel a vonatkozó alapvető követelményeknek és az 1999/5/EC irányelv egyéb előírásainak.
Italian Italiano	Con la presente SMC dichiara che questo Radio LAN device è conforme ai requisiti essenziali ed alle altre disposizioni pertinenti stabilite dalla direttiva 1999/5/CE.
Latvian Latviski	Ar šo SMC deklarē, ka Radio LAN device atbilst Direktīvas 1999/5/EK būtiskajām prasībām un citiem ar to saistītajiem noteikumiem.

Lithuanian Lietuvių	Šiuo SMC deklaruoja, kad šis Radio LAN device atitinka esminius reikalavimus ir kitas 1999/5/EB Direktyvos nuostatas.
Maltese Malti	Hawnhekk, SMC, jiddikjara li dan Radio LAN device jikkonforma mal-ħtiġijiet essenzjali u ma provvedimenti oħrajn relevanti li hemm fid-Dirrettiva 1999/5/EC.
Polish Polski	Niniejszym SMC oświadcza, że Radio LAN device jest zgodny z zasadniczymi wymogami oraz pozostałymi stosownymi postanowieniami Dyrektywy 1999/5/EC.
Portuguese Português	SMC declara que este Radio LAN device está conforme com os requisitos essenciais e outras disposições da Directiva 1999/5/CE.
Romanian Romană	SMC declară că acest dispozitiv fără fir respectă cerințele esențiale precum și alte dispoziții relevante ale Directivei 1999/5/EC.
Slovak Slovensky	SMC týmto vyhlasuje, že Radio LAN device spĺňa základné požiadavky a všetky príslušné ustanovenia Smernice 1999/5/ES.
Slovenian Slovensko	SMC izjavlja, da je ta radio LAN device v skladu z bistvenimi zahtevami in ostalimi relevantnimi določili direktive 1999/5/ES.
Spanish Español	Por medio de la presente SMC declara que el Radio LAN device cumple con los requisitos esenciales y cualesquiera otras disposiciones aplicables o exigibles de la Directiva 1999/5/CE
Swedish Svenska	Härmed intygar SMC att denna Radio LAN device står i överensstämmelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiv 1999/5/EG.
Turkish Turk	SMC bu kablosuz cihazın temel gereksinimleri ve 1999/5/EC yonergesindeki ilgili koşulları karşıladığını beyan eder.

Warnings and Cautionary Messages



Warning: This product does not contain any serviceable user parts.

Warning: Installation and removal of the unit must be carried out by qualified personnel only.

Warning: When connecting this device to a power outlet, connect the field ground lead on the tri-pole power plug to a valid earth ground line to prevent electrical hazards.



Caution: Wear an anti-static wrist strap or take other suitable measures to prevent electrostatic discharge when handling this equipment.

Caution: Do not plug a phone jack connector in the RJ-45 port. This may damage this device.

Caution: Use only twisted-pair cables with RJ-45 connectors that conform to FCC standards.

Caution: The planning and installation of the AP requires professional personnel that are trained in the installation of radio transmitting equipment. The user is responsible for compliance with local regulations concerning items such as antenna power, use of lightning arrestors, grounding, and radio mast or tower construction. Therefore, it is recommended to consult a professional contractor knowledgeable in local radio regulations prior to equipment installation.
