AP6522 Access Point INSTALLATION GUIDE





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Introduction

The AP6522 access point, a component of the Motorola Solutions wireless controller system, links wireless 802.11abgn devices to the controller, enabling the growth of your wireless network with a cost effective alternative to standard access points. The AP6522 access point provides multiple deployment options.

The AP6522 access point receives all power and transfers data through the same CAT-5 or better Ethernet cable. An 802.3af Ethernet switch or power supply (specifically rated for the AP6522) is required (Part No. PWRS-14000-148R).

An AP6522 model access point uses WiNG 5 software as its onboard operating system. The access point's unique WiNG 5 software enables the access point to function as either a Virtual Controller AP capable of adopting and managing up to 24 additional AP6522 access points, a Standalone access point or a Dependent mode access point managed by its connected controller.

If new to Motorola Solutions access point technology, refer to the WiNG Access Point System Reference Guide to familiarize yourself with access point technology and the feature set supported by the WiNG operating system. The guide is available, at http://supportcentral.motorola.com/support/product/manuals.do.

The AP6522 access point is approved under MODEL: AP-0622.

This document is written for the qualified network device installer.

Document Conventions 1.1

The following graphical alerts are used in this document to indicate notable situations:



NOTE

Tips, hints, or special requirements that you should take note of.



CAUTION Care is required. Disregarding a caution can result in data loss or equipment malfunction.



WARNING! Indicates a condition or procedure that could result in personal injury or equipment damage.

1.2 Warnings

 Read all installation instructions and site survey reports, and verify correct equipment installation before connecting the access point.

- Remove jewelry and watches before installing this equipment.
- Verify the unit is grounded before connecting it to the power source.
- Verify any device connected to this unit is properly wired and grounded.
- Verify there is adequate ventilation around the device, and that ambient temperatures meet equipment operation specifications.

1.3 Site Preparation

- Consult your site survey and network analysis reports to determine specific equipment placement, power drops, and so on.
- Assign installation responsibility to the appropriate personnel.
- Identify and document where all installed components are located.
- Ensure adequate, dust-free ventilation to all installed equipment.
- Identify and prepare Ethernet and console port connections.
- Verify cable lengths are within the maximum allowable distances for optimal signal transmission.

1.4 Package Contents

An AP6522 access point is available in integrated antenna and external antenna models. Contents differ depending on the model ordered.

1.4.1 External Antenna Model Package Contents

- AP6522 access point with external antenna connectors (Plenum Rated)
- 2 customer installed mounting lugs
- 4 mounting lug retaining screws
- AP6522 Installation Guide (*This Guide*)

1.4.2 Internal Antenna Model Package Contents

- AP6522 access point with internal antennas
- AP6522 Installation Guide (This Guide)

1.4.3 Features

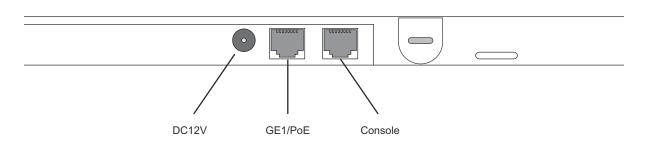
- 2 RJ-45 connectors, one for 10/100/1000 Ethernet and the other for the serial/console connector
- LED indicators
- Slots for wall mounting
- Clips for mounting on a suspended ceiling T-bar (internal antenna model only) with separately orderable accessories
- Lock port for Kensington® style Security Lock

The AP6522 access point has one RJ-45 connector supporting an 10/100/1000 Ethernet port and accepts 802.3af-compliant power from an external source. The illustration below is of an integrated antenna model.



NOTE

When operating in a Gigabit Ethernet environment, CAT-5e or CAT-6 cable is recommended for Gigabit operation.



The AP6522 access point comes with dual radios supporting 802.11abgn. The access point contains runtime firmware which enables the unit to boot after a power up. The runtime firmware on the access point and the firmware downloaded from the connected controller can be updated via the Ethernet interface.



NOTE

When connecting to an AP6522 model access point, note that the baud rate is 115,200 as opposed to 19,200.

2 Hardware Installation

2.1 Installation Instructions

The AP6522 access point mounts either on a wall (with customer supplied M4 x 25 pan head screws and wall anchor - or equivalent) or on a suspended ceiling T-bar. If deploying an external antenna model AP6522 on a suspended ceiling T-bar, access point mounting kit (Part No. KT-135628-01) is required. An AP6522 is not designed for mounting on a desk.

To prepare for the installation:

- 1. Match the model number on the purchase order with the model numbers in the packing list and on the case of the access point.
- 2. Verify the contents of the box include the intended AP6522 access point, and the included hardware matches the package contents on page 5.

Part Number	Description
AP-6522-66030-US	Dual 802.11n radio AP6522. Plastic enclosure with internal antennas. For use in the US deployments only.
AP-6522-66030-EU	Dual 802.11n radio AP6522. Plastic enclosure with internal antennas. For use in European countries only.
AP-6522-66030-WR	Dual 802.11n radio AP6522. Plastic enclosure with internal antennas. For use in non-US countries only.
AP-6522-66040-US	Dual 802.11n radio AP6522. Metal enclosure with external antenna connectors. For use in US deployments only.
AP-6522-66040-EU	Dual 802.11n radio AP6522. Metal enclosure with external antenna connectors. For use in European countries only.
AP-6522-66040-WR	Dual 802.11n radio AP6522. Metal enclosure with external antenna connectors. For use in non-US countries only.

- 3. Review site survey and network analysis reports to determine the location and mounting position for the AP6522 access point.
- 4. Connect a CAT-5 or better Ethernet cable to a compatible 802.3af power source and run the cable to the installation site. Ensure there is sufficient slack on the cable to perform the installation steps.



NOTE

When operating in a Gigabit Ethernet environment, CAT-5e or CAT-6 cable is recommended for Gigabit operation.

2.2 Precautions

Before installing an AP6522 model Access Point, verify the following:

- If a DC power supply is used, ensure it's the approved power supply for the AP6522 (PWRS-1400-148R).
- Motorola Solutions recommends you do not to install the AP6522 in wet or dusty areas.
- Verify the environment has a continuous temperature range between 0° C to 40° C.

2.3 Access Point Placement

For optimal performance, install the access point away from transformers, heavy-duty motors, fluorescent lights, microwave ovens, refrigerators and other industrial equipment. Signal loss can occur when metal, concrete, walls or floors block transmission. Install the access point in an open area or add access points as needed to improve coverage.

Antenna coverage is analogous to lighting. Users might find an area lit from far away to be not bright enough. An area lit sharply might minimize coverage and create *dark areas*. Uniform antenna placement in an area (like even placement of a light bulb) provides even, efficient coverage.

Place the access point using the following guidelines:

- Install the access point at an ideal height of 10 feet from the ground.
- Orient the access point antennas vertically for best reception (applies to external antenna models only).

To maximize the access point's radio coverage area, Motorola Solutions recommends conducting a site survey to define and document radio interference obstacles before installing the access point.

2.4 Integrated Antenna Model Wall Mount Instructions

Wall mounting requires hanging the AP6522 along its width or length using the two slots on the bottom of the unit. The AP6522 can be mounted on to any plaster, wood, or cement wall surface using customer supplied screw hardware (M3.5 x 0.6 x 20 mm- or equivalent).

2.4.1 Wall Mount Hardware

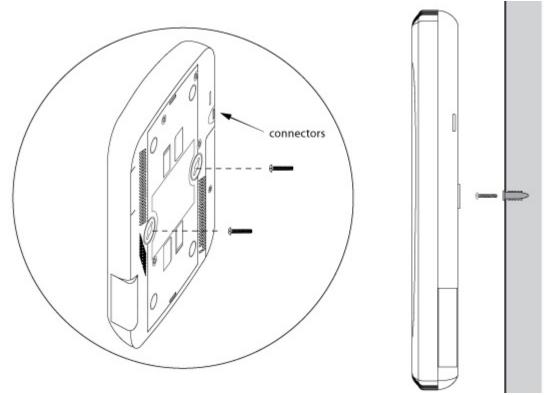
- Two wide-shoulder Phillips pan head self-tapping screws (customer supplied)
- Two wall anchors (customer supplied)
- Security cable (optional)



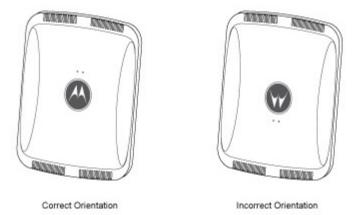
NOTE

The following screws are recommended: (ANSI Standard) #6-18 X 0.875in. Type A or AB Self-Tapping Screw, or (ANSI Standard Metric) M3.5 X 0.6 X 20mm Type D Self-Tapping Screw.

2.4.2 Wall Mount Procedure



1. Orient the case on the wall by its width or length.





CAUTION

To ensure proper operation of an AP6522 access point, ensure it is mounted in the correct orientation as shown above.

- 2. Mark two points (for drill holes) 4.08 inches (103.7 mm) apart on a horizontal line.
- 3. At each point, drill a hole in the wall, insert an anchor, screw into the anchor the wall mounting screw and stop when there is 1mm between the screw head and the wall.



NOTE When pre-drilling a hole the recommended hole size is 2.8mm (0.11in.).

- 4. If required, install and attach a Kensington security cable (customer supplied) to the unit's lock port.
- 5. Attach an Ethernet cable from the access point to a controller with an 802.3af-compatible power source or use the PWRS-14000-148R power supply to supply power to the AP6522 (once fully cabled).
- 6. Place the middle of each of the case's mount slots over the screw heads.
- 7. Slide the case down along the mounting surface to hang the mount slots on the screw heads.
- 8. Verify the unit has power by observing that the LEDs are lit or flashing.

CAUTION

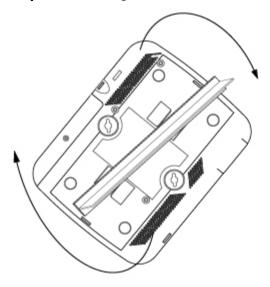


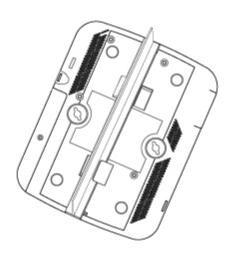
If not using a 802.3af capable controller to power the AP6522, ensure only the AP6522's designated power supply (PWRS-14000-148R) is used to supply power to the access point. Using an incorrectly rated power supply could damage the unit and void the product warranty. Do not actually connect to the power source until the cabling portion of the installation is complete.

2.5 Integrated Antenna Model Suspended Ceiling T-Bar Mount

Ceiling mount requires holding the AP6522 access point up against a T-bar of a suspended ceiling grid and twisting the case onto the T-bar.

2.5.1 Suspended Ceiling T-Bar Mount Procedure





Plastic Under Ceiling Mount A

Plastic Under Ceiling Mount B

- 1. If required, install and attach a Kensington security cable (customer supplied) to the unit's lock port.
- 2. Attach an Ethernet cable from the access point to a controller with an 802.3af compatible power source or use the PWRS-14000-148R power supply to supply power to the AP6522 (once fully cabled).
- 3. Align the bottom of the T-bar with the back of the case.
- 4. Orient the case by its length, and the length of the T-bar.
- 5. Rotate the case 45 degrees clockwise, or about 10 o'clock.
- 6. Push the back of the case onto the bottom of the T-bar.
- 7. Rotate the case 45 degrees counter-clockwise. The clips click as they fasten to the T-bar.
- 8. Verify the unit has power by observing the LEDs.

CAUTION



If not using a 802.3af capable controller to power the AP6522, ensure only the AP6522's designated power supply (PWRS-14000-148R) is used to supply power to the access point. Using an incorrectly rated power supply could damage the unit and void the product warranty. Do not actually connect to the power source until the cabling portion of the installation is complete.

2.6 External Antenna Model Wall Mount Instructions

A wall mount deployment requires hanging the AP6522 access point along its width or length using the pair of slots on the bottom of the unit. The AP6522 can be mounted on to any plaster, wood or cement wall surface using the provided wall anchors.

2.6.1 Wall Mount Hardware

- Two customer provided wide-shoulder Phillips pan head self-tapping screws (M3.5 x 0.6 x 20 mm)
- Two wall anchors (customer supplied)
- Security cable (optional)



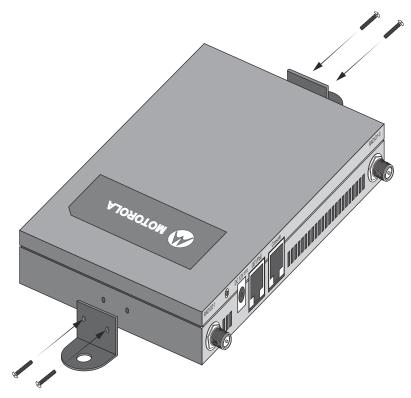
NOTE

The following screws are recommended: (ANSI Standard) #6-18 X 0.875in. Type A or AB Self-Tapping Screw, or (ANSI Standard Metric) M3.5 X 0.6 X 20mm Type D Self-Tapping Screw.

2.6.2 Wall Mount Procedure - New Installation

This section describes a new AP6522 installation with no previous access point existing on the intended wall surface.

 Attach the two provided mounting ears (using four ear mounting screws) to the two narrow ens of the AP6522. Align the ears using the built in ear alignment pin on the access point housing. Torque the screws to 6 lb-in.



- 2. Place the access point against the wall, ensuring the access point's Motorola Solutions "bat wings" logo is in the correct orientation.
- 3. Mark the screw hole locations on a vertical axis using the ear's mounting holes.
- 4. At each point, drill a hole in the wall and insert the anchor.



NOTE When pre-drilling a hole the recommended hole size is 2.8mm (0.11in.).

- 5. Place the access point on the anchor. Insert screws through the access point's mounting ears and into the anchor.
- 6. If required, install and attach a Kensington security cable (customer supplied) to the unit's lock port.
- 7. Attach an Ethernet cable from the access point to a controller with an 802.3af-compatible power source or use the PWRS-14000-148R power supply to supply power to the AP6522 (once fully cabled).
- 8. Attach appropriate antennas to the connectors.

9. Attach an Ethernet cable from the access point to a controller with an 802.3af compatible power source.

10. Verify the access point is receiving power by observing that the LEDs are lit or flashing.

CAUTION



If not using a 802.3af capable controller to power the AP6522, ensure only the AP6522's designated power supply (PWRS-14000-148R) is used to supply power to the access point. Using an incorrectly rated power supply could damage the unit and void the product warranty. Do not actually connect to the power source until the cabling portion of the installation is complete.

2.6.3 Wall Mount Procedure - Existing Access Point Replacement

An existing external antenna model AP300 (WSAP-5100-100) or external antenna model AP650 (AP-0650-660X0) access point, installed on a wall (plenum installation), can be placed by an AP6522. Simply remove the existing legacy model access point from its mounting screws, leave the mounting hardware in place and install the new external antenna model AP6522 directly on to the existing mounting hardware. The cabling procedure for such a replacement is as described in the previous section.

2.7 External Antenna Model Suspended Ceiling T-Bar Mount

Ceiling mount requires holding the AP6522 access point up against a T-bar of a suspended ceiling grid and twisting the case onto the T-bar. If deploying an external antenna model AP6522 on a ceiling T-Bar, access point mounting kit (Part No. KT-135628-01) or ceiling mount hardware (SCT-2) is required.

2.7.1 Suspended Ceiling T-Bar Mount Procedure - Using Mounting Kit

The following installation uses the access point mounting kit (Part No. KT-135628-01) to deploy the access point on a ceiling T-Bar.

- 1. If required, install and attach a Kensington security cable (customer provided) to the unit's lock port.
- 2. Using only the mounting bracket from the mounting kit, rotate and click the mounting bracket into the mounting slots on the AP6522.
- 3. Attach an Ethernet cable from the access point to a controller with an 802.3af compatible power source or use the PWRS-14000-148R power supply to supply power to the AP6522 (once fully cabled).
- 4. With the ceiling tile raised, slip the T-Bar bracket on to the exposed T-Bar flange.
- 5. Lower the ceiling tile and verify the stability of the T-Bar mounting bracket connection. There will be no stability in this assembly until the ceiling tile is lowered on to the T-Bar to secure the mounting hardware.
- 6. Verify the unit has power by observing the LEDs.

CAUTION

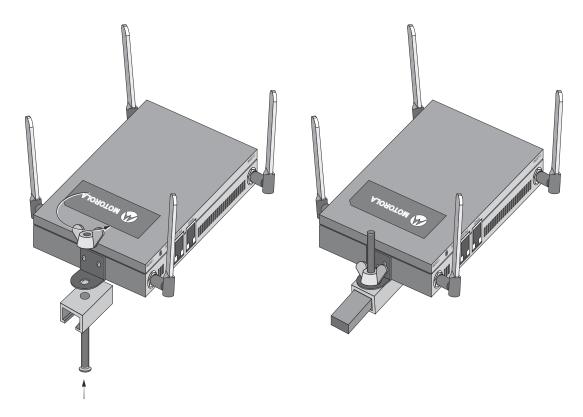


If not using an 802.3af capable controller to power the AP6522, ensure only the AP6522's designated power supply (PWRS-14000-148R) is used to supply power to the access point. Using an incorrectly rated power supply could damage the unit and void the product warranty. Do not actually connect to the power source until the cabling portion of the installation is complete.

2.7.2 Suspended Ceiling T-Bar Mount Procedure - Using Ceiling Mount Hardware

The following installation uses the access point ceiling mounting kit (Part No. SCT-2) to deploy the access point on a ceiling T-Bar.

- 1. If required, install and attach a Kensington security cable (customer provided) to the unit's lock port.
- 2. Remove nut from the SCT-2 kit and place assembly and screw through access point mounting ear.
- 3. Place the clips from the SCT-2 ceiling mount kit over ceiling T-Bar.
- 4. Tighten clips using provided nuts.



- 5. Attach an Ethernet cable from the access point to a controller with an 802.3af compatible power source or use the PWRS-14000-148R power supply to supply power to the AP6522 (once fully cabled).
- 6. Attach appropriate antennas to the connectors.
- 7. Attach an Ethernet cable from the access point to the controller with an 802.3af compatible power source.
- 8. Verify the unit has power by observing the LEDs.

CAUTION



If not using an 802.3af capable controller to power the AP6522, ensure only the AP6522's designated power supply (PWRS-14000-148R) is used to supply power to the access point. Using an incorrectly rated power supply could damage the unit and void the product warranty. Do not actually connect to the power source until the cabling portion of the installation is complete.

External Antenna Suspended Ceiling Tile (Plenum) Mount 2.8

Ceiling mount requires placing the AP6522 access point above suspended ceiling tile.



NOTE

Notes or warnings about suspended ceiling mounts apply to all installations where the unit is placed on suspended ceiling tile.

CAUTION



Motorola Solutions does not recommend mounting the AP6522 access point directly to any suspended ceiling tile with a thickness less than 12.7mm (0.5in.) or a suspended ceiling tile with an unsupported span greater than 660mm (26in.). Motorola Solutions strongly recommends fitting the AP6522 access point with the supplied mounting ears and hanging the access point on a pipe or beam.

2.8.1 Suspended Ceiling Mount Hardware

- Security cable (optional)
- Mounting ears
- Customer supplied pipe or channel clamps

Ceiling Mount Procedure 2.8.2

- If possible, remove the ceiling tile from its frame and place it, finish side down, on a work surface. 1.
- 2. If required, install and attach a Kensington security cable (customer provided) to the unit's lock port.
- Place the access point on the ceiling tile or attach to a plenum beam or pipe using industry available clamps.
- Attach appropriate antennas to the connectors.
- 5. Bring the tile into the ceiling space
- Attach an Ethernet cable from the access point to a controller with an 802.3af compatible power source or use the PWRS-14000-148R power supply to supply power to the AP6522 (once fully cabled).
- 7. Verify the access point is receiving power by observing the LEDs.
- Place the ceiling tile back in its frame.



CAUTION If not using an 802.3af capable controller to power the AP6522, ensure only the AP6522's designated power supply (PWRS-14000-148R) is used to supply power to the access point. Using an incorrectly rated power supply could damage the unit and void the product warranty. Do not actually connect to the power source until the cabling portion of the installation is complete.

2.9 AP6522 External Antenna Model Antenna Options

Motorola Solutions supports two antenna suites for AP6522 External Antenna models. One antenna suite supporting the 2.4 GHz band and another antenna suite supporting the 5 GHz band. Select an antenna model best suited to the intended operational environment of your access point.



The 2.4 GHz antenna suite includes the following models:

Part Number	Antenna Type
ML-2452-APA2-01	Dipole Antenna
ML-2499-SD3-01R	Patch Antenna
ML-2499-HPA3-01R	Omni Antenna
ML-2452-PNA5-01R	Panel Antenna
ML-2452-PTA3M3-036	Omni Antenna
ML-2452-APAG2A1-01 (Black) ML-2452-APAG2A1-02 (White)	Dipole Antenna

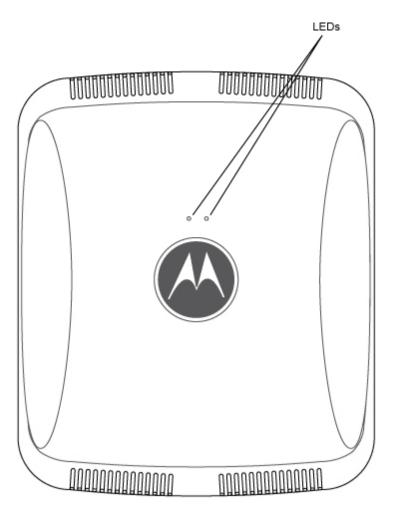
The 5 GHz antenna suite includes the following models:

Part Number	Antenna Type
ML-2452-APA2-01	Dipole Antenna
ML-5299-PTA1-01R	Patch Antenna
ML-5299-HPA1-01R	Omni Antenna
ML-2452-PNA5-01R	Panel Antenna
ML-2452-PTA3M3-036	Omni Antenna
ML-2452-APAG2A1-01 (Black) ML-2452-APAG2A1-02 (White)	Dipole Antenna

For up-to-date information on supported antennas and antenna specifications, please refer to the *Motorola Solutions Enterprise Wireless LAN Antenna Specification Guide* available on the Motorola Solutions Web site. For more information, refer to http://supportcentral.motorola.com/support/product/manuals.do.

2.10 LED Indicators

Both Integrated Antenna and External Antenna models have LED activity indicators on the front of the case. With the External Antenna models mounted above a ceiling, LEDs are at the center of an oval badge on the ceiling.



The LEDs provide a status display indicating error conditions, transmission, and network activity for the 5 GHz 802.11an (amber) radio or the 2.4 GHz 802.11bgn (green) radio.

Task	5 GHz Activity LED (Amber)	2.4 GHz Activity LED (Green)
Unadopted	Off	Blink interval at 5 times a second
Normal Operation	 If this radio band is enabled: Blink at 5 second interval If this radio band is disabled: Off If there is activity on this band: Blink interval at 1 time per second 	 If this radio band is enabled: Blink at 5 second interval If this radio band is disabled: Off If there is activity on this band: Blink interval at 1 time per second
Firmware Update	On	Off
Sensor Mode	Blink interval at 5 times a second	Blink interval at 5 times a second

3 Initial Access Point Configuration

Once the access point is installed and powered on, complete the following steps to get the device up and running using the Initial Setup Wizard:



NOTE

When connecting to an AP6522 model access point, note that the baud rate is 115,200 as opposed to 19,200.

1. Attach an Ethernet cable from the access point to a controller with an 802.3af compatible power source or use the PWRS-14000-148R power supply to supply power to the AP6522 (once fully cabled).

If your host system is a DHCP server, an IP address is automatically assigned to the AP6522 and can be used for device connection. However, if a DHCP server is not available, you'll need to derive the IP address from the AP6522 MAC address. Using this method, the last two bytes of the AP6522 MAC address become the last two octets of the IP address.

AP6522 MAC address - 00:C0:23:00:F0:0A AP6522 IP address equivalent - 169.254.240.10

To derive the AP6522's IP address using its factory assigned MAC address:

- a. Open the Windows calculator be selecting *Start > All Programs > Accessories > Calculator*. This menu path may vary slightly depending on your version of Windows.
- b. With the Calculator displayed, select *View > Scientific*. Select the **Hex** radio button.
- c. Enter a hex byte of the AP6522's MAC address. For example, F0.
- d. Select the **Dec** radio button. The calculator converts F0 into 240. Repeat this process for the last AP6522 MAC address octet
- 2. Point the Web browser to the AP6522's IP address (using https://). The following login screen displays.



- 3. Enter the default username *admin* in the **Username** field.
- 4. Enter the default password *motorola* in the **Password** field.

5. Click the **Login** button to load the management interface.



NOTE

When logging in for the first time, you're prompted to change the password to enhance device security in subsequent logins.



NOTE

If you get disconnected when running the wizard, you can connect again with the access point's actual IP address (once obtained) and resume the wizard.

6. Select the **Start Wizard** button to run the initial setup wizard.

The setup wizard displays the first time the AP6522 user interface is accessed in order to define the AP6522's initial configuration.

An initial setup wizard is available to aid in configuring a simple WLAN deployment. The wizard will guide configuration of the following features:

- 1. Access Point Type
- 2. Bridge or Router Operation
- 3. LAN Configuration
- 4. Radio Mapping
- 5. WAN Configuration
- 6. Wireless LAN Configuration
- 7. Location, Country, and Time Zone

Would you like to use the wizard?



7. If this is the first time the management interface has been accessed, a dialogue displays to start the wizard. Select **Start Wizard** to run the wizard.



The first page of the Initial AP Setup Wizard displays the *Navigation Panel* and *Introduction* for the configuration activities comprising the access point's initial setup

A green checkmark to the left of an item in the Navigation Panel defines the listed task as having its minimum required configuration parameters set correctly. A red X defines the task as still requiring at least one parameter be defined correctly.

The Introduction screen displays a list of the basic configuration activities supported by the Initial Setup Wizard.



- 1. Access Point Types: Virtual Controller AP or Standalone AP
- 2. Access Point Mode: Bridge or Router Operation
- 3. LAN Configuration
- 4. Radio Configuration
- 5. WAN Configuration
- 6. Wireless LAN Configuration
- 7. Location, Country Code, Time Zone, Date and Time
- 8. Summary and Save/Commit
- 8. Select **Save/Commit** within each page to save the updates made to that page's configuration. Select **Next** to proceed to the next page listed in the Navigation Panel. Select **Back** to revert to the previous screen in the Navigation Panel without saving your updates.



NOTE

While you can navigate to any page in the navigation panel, you cannot complete the Initial AP Setup Wizard until each task in the Navigation Panel has a green checkmark.

 Select Next. The Initial AP Setup Wizard displays the Access Point Type screen to define the access point's Standalone versus Virtual Controller AP functionality and the way the access point is adopted to a controller.

Access Point Type Selection

- Virtual Controller AP When multiple access points are deployed, a single access point can function as a Virtual Controller AP and manage other access points. The Virtual Controller AP can adopt and configure other access points of the same model in a 24-cell (maximum) deployment.
- Standalone AP Select this option to deploy this access point as an autonomous "fat" access point. A standalone AP isn't managed by a Virtual Controller AP, or adopted by a controller.
- Adopted to Controller Select this option when you want the AP to adopt to a controller. The AP will discover L2 connected controllers automatically. It will also try to discover controllers over L3 using DHCP or DNS discovery mechanism. For this, no further configuration is required on the AP. Please see the System Reference Guidefor details on how to setup your DHCP or DNS server to enable this. If the AP is not on the same L2 segment as the controller and your network is not setup for DHCP or DNS based discover, you can specify the controller IP manually below.

10. Select an **Access Point Type** from the following options:

- Virtual Controller AP When more than one access point is deployed, a single access point can function as a Virtual Controller AP. Up to 24 access points can be connected to, and managed by, a single Virtual Controller AP of the same AP6522 model.
- Standalone AP -Select this option to deploy this access point as an autonomous fat access point. A Standalone AP isn't managed by a Virtual Controller AP, or adopted by a controller.



NOTE If designating the access point as a Standalone AP, Motorola Solutions recommends the access point's UI be used exclusively to define its device configuration, and not the CLI. The CLI provides the ability to define more than one profile and the UI does not. Consequently, the two interfaces cannot be used collectively to manage profiles without an administrator encountering problems.

- Adopted to Controller Select this option when deploying the access point as a controller managed (Dependent mode) access point. Selecting this option closes the Initial AP Setup Wizard. An adopted access point obtains its configuration from a profile stored on its managing controller. Any manual configuration changes are overwritten by the controller upon reboot.
 - Select the Automatic controller discovery option to enable the access point to be discovered and adopted using layer 2 settings. If preferring layer 3 adoption, select the Static Controller Configuration option, and define the addresses of the preferred controllers. If using the static method,

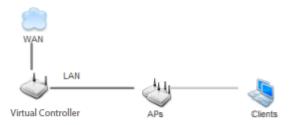
you'll also need to define whether the access point receives an IP address using DHCP or if IP resources are provided statically.

Adoption Settings		
 Automatic controller discovery (L2, DHCP or DNS based) 		
Static Controller Configuration		
Controller 1 * 157 . 235 . 121 . 21 Controller	2	
AP IP Address		
Use DHCP Static IP Address/Subnet	*	192.168. 0 . 1 / 24
Default Gateway	*	192.168. 0 . 1

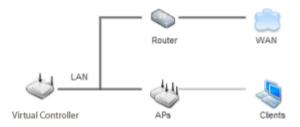
11. Select **Next**. The Initial AP Setup Wizard displays the **Access Point Mode** screen to define the access point's routing or bridging mode functionality.

🧅 Access Point Mode Selection

 Router Mode - the access point routes traffic between the wireless network and the Internet or corporate network (WAN).



Bridge Mode - In Bridge Mode, the access point depends on an external router for routingLAN and WAN traffic. Routing is generally used on one device, whereas bridging is typically used in a larger density network. Thus, select Bridge Mode when deploying this access point with numerous peer APs supporting clients on both the 2.4 and 5GHz radio bands.



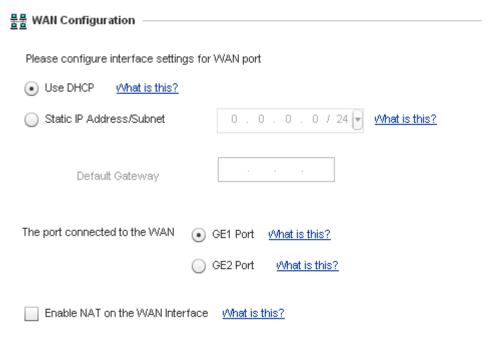
- 12. Select an **Access Point Mode** from the available options.
 - Router Mode In Router Mode, the access point routes traffic between the local network (LAN) and
 the Internet or external network (WAN). Router mode is recommended in a deployment supported by
 just a single access point.
 - Bridge Mode In Bridge Mode, the AP depends on an external router for routing LAN and WAN traffic.
 Routing is generally used on one device, whereas bridging is typically used in a larger network. Thus, select Bridge Mode when deploying this access point with numerous peer APs supporting clients on both the 2.4 and 5GHz radio bands.
- 13. Select **Next**. The Initial AP Setup Wizard displays the **LAN Configuration** screen to set the access point's LAN interface configuration.

뭄뭄 LAN Configuration ———		
<u>aa</u> Exii oomigaradon		
Please configure interface setti	ngs for LAN (VLAN 1) wi	hich will be used by wireless clients
Use DHCP What is this?		
Static IP Address/Subnet	<u>What is this?</u> ∗	192.168. 0 . 1 / 24
DHCP Server ——		
Use on-board D	HCP server to assign IP a	addresses to wireless clients
Range	192.168. 0 .100	192.168. 0 .200
Default Gateway	192.168. 0 . 1	
Domain Name Serve	r (DNS)	
✓ DNS Forwarding	9	
Primary DNS		
Secondary DNS		

- 14. Set the following DHCP and Static IP Address/Subnet information for the LAN interface:
 - Use DHCP Select the checkbox to enable an automatic network address configuration using the access point's DHCP server.
 - Static IP Address/Subnet Enter an IP Address and a subnet for the access point's LAN interface. If
 Use DHCP is selected, this field is not available. When selecting this option, define the following DHCP
 Server and Domain Name Server (DNS) resources, as those fields will become enabled on the bottom
 portion of the screen.
 - Use on-board DHCP server to assign IP addresses to wireless clients -Select the checkbox to
 enable the access point's DHCP server to provide IP and DNS information to clients on the LAN
 interface.
 - Range Enter a starting and ending IP Address range for client assignments on the LAN interface.
 Avoid assigning IP addresses from x.x.x.1 x.x.x.10 and x.x.x.255, as they are often reserved for standard network services. This is a required parameter.
 - *Default Gateway* Define a default gateway address for use with the default gateway. This is a required parameter.

DNS Forwarding - Select this option to allow a DNS server to translate domain names into IP addresses. If this option is not selected, a primary and secondary DNS resource must be specified.
 DNS forwarding is useful when a request for a domain name is made but the DNS server, responsible for converting the name into its corresponding IP address, cannot locate the matching IP address.

- Primary DNS Enter an IP Address for the main Domain Name Server providing DNS services for the access point's LAN interface.
- Secondary DNS Enter an IP Address for the backup Domain Name Server providing DNS services for the access point's LAN interface
- 15. Select **Next**. The Initial AP Setup Wizard displays the **WAN Configuration** screen to set the access point's WAN interface configuration.



- 16. Set the following DHCP and Static IP Address/Subnet information for the WAN interface:
 - *Use DHCP* Select the checkbox to enable an automatic network address configuration using the access point's DHCP server.
 - Static IP Address/Subnet Enter an IP Address/Subnet and gateway for the access point's WAN interface. These are required fields
 - The port connected to the WAN Select the port used as the physical access point connection to the external network. This ports available differ depending on the access point model deployed. Access point models with a single port have this option fixed.

• Enable NAT on the WAN Interface - Select the checkbox to allow traffic to pass between the access point's WAN and LAN interfaces.

17. Select **Next**. The Initial AP Setup Wizard displays the **Radio Configuration** screen to define support for the 2.4GHz radio band, 5GHz radio band or to set the radio's functionality as a dedicated sensor.



NOTE The **ADSP Sensor Server** field displays at the bottom of the screen only if a radio has been dedicated as a sensor.



- 18. Set the following parameters for the radio:
 - Configure as a Data Radio Select this option to dedicate this radio for WLAN client support in either the selected 2.4 or 5GHz radio band.
 - Radio Frequency Band Select either the 2.4GHz or 5.0GHz radio band to use with the radio when selected as a Data Radio. The selected band is used for WLAN client support. Considers selecting one radio for 2.4GHz and another for 5GHz support when supporting clients in both the 802.11bg and 802.11n bands.
 - *Power Level* Use the spinner control to select a 1 23 dBm minimum power level to assign to this radio in selected 2.4 or 5.0 GHz band. 1 dBm is the default setting.

• Channel Mode - Select either Random, Best or Static. Select Random for use with a 802.11an radio. To comply with Dynamic Frequency Selection (DFS) requirements in the European Union, the 802.11an radio uses a randomly selected channel each time the access point is powered on. Select Best to enable the access point to scan non-overlapping channels and listen for beacons from other access points. After the channels are scanned, it will select the channel with the fewest access points. In the case of multiple access points on the same channel, it will select the channel with the lowest average power level. When Constantly Monitor is selected, the access point will continuously scan the network for excessive noise and sources of interference. Select Static to assign the access point a permanent channel and scan for noise and interference only when initialized.

- Configure as a Sensor Radio Select this option to dedicate the radio to sensor support exclusively.
 When functioning as a sensor, the radio scans in sensor mode across all channels within the 2.4 and
 5.0GHz bands to identify potential threats within the access point managed network. If dedicating a
 radio as a sensor resource, a primary and secondary ADSP server must be specified as an ADSP
 management resource.
- *Disable the Radio* Select this option to disable this radio, thus prohibiting it from either providing WLAN or sensor support. Verify this course action with your network administrator before rendering the radio offline.
- 19. Select Next. The Initial AP Setup Wizard displays the Wireless LAN Setting screen to define network address and security settings for two WLAN configurations available to the access point as part of the Initial Setup Wizard. Once the access point has an initial configuration defined, numerous additional WLAN configurations can be set.

	WLAN 1 WLAN 2
말 WLAN 1 Confi	guration ————————————————————————————————————
SSID	* <u>vVhat is this?</u>
WLAN Type	No Authentication and No Encryption
	Captive Portal Authentication and No Encryption What is this?
	PSK authentication, WPA2 encryption What is this?
	EAP Authentication and WPA2 Encryption

20. Set the following parameters for each of the two WLAN configurations available as part of this Initial AP Setup Wizard:

- *SSID* Enter or modify the *Services Set Identification* (SSID) associated with the WLAN. The WLAN name is auto-generated using the SSID until changed by the user. The maximum number of characters is 32. Do not use <> | " & \ ?, This is a required parameter for each WLAN.
- WLAN Type Set the data protection scheme used by clients and access points within the WLAN. The following options are available:
 - *No Authentication and no Encryption* Select this option to provide no security between the access point and connected clients on this WLAN.
 - Captive Portal Authentication and No Encryption Select this option to use a Web page (either
 internally or externally hosted) to authenticate users before access is granted to the network. If
 using this option, define whether a local or external RADIUS authentication resource is used.
 - *PSK Authentication and WPA2 Encryption* Select the option to implement a pre-shared key that must be correctly shared between the access point and requesting clients using this WLAN. If using this option, specify a WPA key in either ASCII (8-63 characters) or HEX (64 characters) format.
 - EAP Authentication and WPA2 Encryption Select this option to authenticate clients within this WLAN through the exchange and verification of certificates. If using this option, define whether a local or external RADIUS authentication resource is used.
- WPA Key- If a WPA key is required (PSK Authentication and WPA2 Encryption), enter an alphanumeric string of 8 to 63 ASCII characters or 64 HEX characters as the primary string both transmitting and receiving authenticators must share. The alphanumeric string allows character spaces. This passphrase saves the administrator from entering the 256-bit key each time keys are generated.
- RADIUS Server If the WLAN requires a RADIUS server to validate user credentials, designate
 whether the access point is using an External RADIUS Server resource or the access point's own
 Onboard RADIUS Server. If using an external RADIUS server resource, provide the IP address of the
 external server and the shared secret used to authenticate the request.



NOTE

If using the access point's onboard RADIUS server, an additional **RADIUS Server Configuration** screen displays within the Navigation Panel on the left-hand side of the screen. Use this screen to create user accounts validated when the access point authenticates client connection requests to the onboard RADIUS server.

21. Select Next. The Initial AP Setup Wizard displays the RADIUS Server Configuration screen if the access point's onboard RADIUS server is required to validate user requests. If an onboard RADIUS server is not required, the Initial AP Setup Wizard displays the Country/Date/Time screen to set device deployment, administrative contact and system time information.

Some WLANs require authentication using the on-board RADIUS server. User accounts must be added for all users that should be authorized by the server.

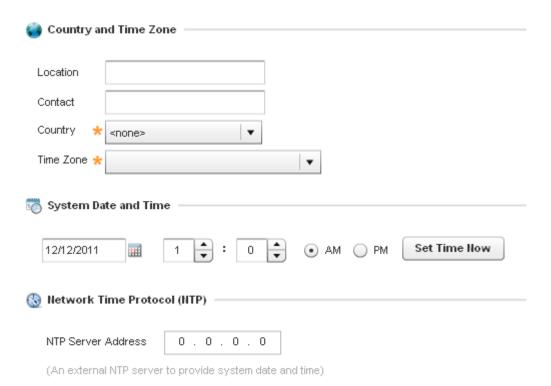
Username	Description	Actions

Add On-Board RAD	NUS Server Users		
Username	*		
Password	*		
Confirm Password	*		
Description		A	
Add User	Modify User Reset		

- 22. Refer to the *Username*, *Password*, *Description* and *Actions* columns to review credentials of existing RADIUS Server user accounts. Add new accounts or edit the properties of existing accounts as updates are required.
- 23. Refer to the **Add On-Board RADIUS Server Users** field to set the following parameters for a user account:
 - *Username* If adding a new user account, create a username up to X characters in length. The username cannot be revised if modifying the user configuration. This is a required parameter.
 - Password Provide (or modify) a password between X X characters in length entered each time a
 requesting client attempts access to the AP managed network using the access point's onboard
 RADIUS server. This is a required parameter.
 - *Confirm Password* Re-enter (or modify) the password as a means of confirming the password. This is a required parameter.
 - *Description* Optionally provide a description of the user account as means of further differentiating it from others.

24. When completed, select Add User to commit a new user, Modify User to commit a modified user or Reset to clear the screen without updating the configuration. Selecting Reset clears the field of all entered user account information.

25. Select **Next**. The Initial AP Setup Wizard displays the **Country/Date/Time** screen to set device deployment, administrative contact and system time information. The system time can either be set manually or be supplied by a dedicated *Network Time Protocol* (NTP) resource.

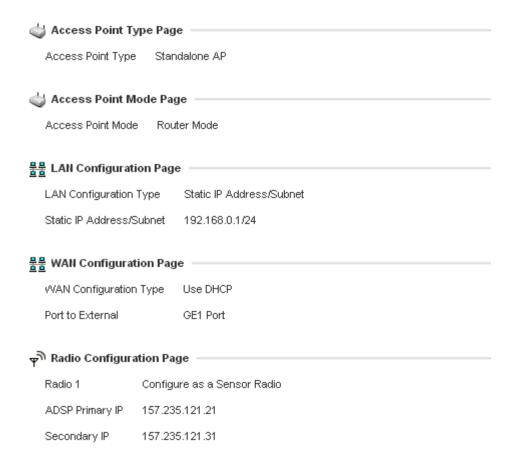


- 26. Refer to the **Country and Time Zone** field to set the following device deployment information:
 - Location Define the location of the access point. The Location parameter acts as a reminder of where the AP is deployed within the Motorola Solutions managed wireless network.
 - *Contact* Specify the contact information for the administrator. The credentials provided should accurately reflect the individual responding to service queries.
 - Country Select the Country where the access point is deployed. The access point prompts for the
 correct country code on the first login. A warning message also displays stating an incorrect country
 setting may result in illegal radio operation. Selecting the correct country is central to legal operation.
 Each country has its own regulatory restrictions concerning electromagnetic emissions and the
 maximum RF signal strength that can be transmitted. This is a required parameter.

• *Time Zone* - Set the time zone where the access point is deployed. This is a required parameter. The setting should be complimentary with the selected deployment country.

- 27. If an NTP resource is unavailable, set the **System Date and Time** (calendar date, time and AM/PM designation).
- 28. Optionally enter the IP address of a server used to provide system time to the access point. Once the IP address is entered, the **Network Time Protocol (NTP)** functionality is engaged automatically for synchronization with the NTP resource.
- 29. If an NTP resource is unavailable, set the **System Date and Time** (calendar date, time and AM/PM designation).
- 30. Optionally enter the IP address of a server used to provide system time to the access point. Once the IP address is entered, the **Network Time Protocol (NTP)** functionality is engaged automatically for synchronization with the NTP resource.
- 31. Select **Next**. The Initial AP Setup Wizard displays the **Summary and Commit** screen to summarize the screens (pages) and settings updated using the Initial AP Setup Wizard.

There's no user intervention or additional settings required within this screen. It's an additional means of validating the configuration before its deployed. However, if a screen displays settings not intended as part of the initial configuration, the screen can be selected from within the Navigation Panel and its settings modified accordingly.



If the configuration displays as intended, select the **Save/Commit** button to implement these settings to the access point's configuration. If additional changes are warranted based on the summary, either select the target page from the Navigational Panel, or use the **Back** and **Next** buttons to scroll to the target screen

For information on how use a Motorola Solutions RFS Series controller to manage an AP6522 access point, refer to http://supportcentral.motorola.com/support/product/manuals.do.

Specifications 4

AP6522 Integrated Antenna Model Electrical Characteristics 4.1

An AP6522 Integrated model Access Point has the following electrical characteristics:

Operating Current & 12VDC, 1A (accessory power connector)

Voltage 48V,0.25A (PoE connector)

AP6522 Integrated Antenna Model Physical Characteristics 4.2

An AP6522 Integrated Antenna model Access Point has the following physical characteristics:

Dimensions 9 38 inches x 7 5 inches x 1 38 inches

23.82 cm x 19.50 cm x 3.50 cm

Housing **Plastic**

Weight 0.90 lbs / 0.40 kg

32°F to 104°F/0°C to 40°C **Operating**

Temperature

Storage Temperature -40°F to 185°F/-40°C to 85°C

Operating Humidity 5 to 95% Relative Humidity non-condensing

Storage Humidity 85% Relative Humidity non-condensing 8,000 ft @ 28C

Operating Altitude

(max)

Storage Altitude

(max)

30,000 ft @ 12C

Electrostatic

+/-15kV Air and +/-8kV Contact @ 50% Relative Humidity

Discharge

4.3 AP6522 External Antenna Model Electrical Characteristics

An AP6522 External Antenna model Access Point has the following electrical characteristics:

Operating Current & 12VDC, 1A (accessory power connector)

Voltage 48V,0.25A (PoE connector)

4.4 AP6522 External Antenna Model Physical Characteristics

An AP6522 External Antenna model Access Point has the following physical characteristics:

Dimensions 7.88 inches x 5.00 inches x 1.00 inches

20.01 cm x 12.70 cm x 2.54 cm

Housing Metal

Weight 1.45 lbs / 0.65 kg

Operating 32°F to 104°F/0°C to 40°C

Temperature

Storage Temperature -40°F to 185°F/-40°C to 85°C

Operating Humidity 5 to 95% Relative Humidity non-condensing

Storage Humidity 85% Relative Humidity non-condensing

Operating Altitude

(max)

8,000 ft @ 28C

Storage Altitude

(max)

30,000 ft @ 12C

Electrostatic Discharge +/-15kV Air and +/-8kV Contact @ 50% Relative Humidity

4.5 Radio Characteristics

The AP6522 model Access Points have the following radio characteristics:

Operating Channels All channels from 4920 MHz to 5825 MHz except channel

52 -64

Channels 1-13 (2412-2472 MHz) Channel 14 (2484 MHz) Japan only

Actual operating frequencies depend on regulatory approval for the

country of use.

Data Rates Supported 802.11b: 1,2,5.5,11Mbps

802.11g: 1,2,5.5,11,6,9,12,18,24,36,48, and 54Mbps

802.11a: 6,9,12,18,24,36,48, and 54Mbps

802.11n: MCS 0-15 up to 300Mbps

Wireless Medium Direct Sequence Spread Spectrum (DSSS),

Orthogonal Frequency Division Multiplexing (OFDM)

Spatial multiplexing (MIMO)

Network Standards 802.11a, 802.11b, 802.11g, 802.3, 802.11n (Draft 2.0)

Maximum Available Maximum available conducted transmit power per chain: Transmit Power 2.4 GHz: 21dBm

Maximum available conducted transmit power all chains:

2.4 GHz: 24dBm

Maximum available conducted transmit power per chain:

5 GHz: 19dBm

Maximum available conducted transmit power all chains:

5 GHz: 22dBm

Transmit Power Adjustment

1dB increments

5 Regulatory Information

This device is approved under the Symbol Technologies, Inc. brand: Symbol Technologies, Inc. is a wholly owned subsidiary of Motorola Solutions, Inc. (collectively "Motorola").

This guide applies to Model Number AP6522. The AP6522 access point is approved under MODEL: AP-0622.

All Motorola/Symbol devices are designed to be compliant with rules and regulations in locations they are sold and will be labeled as required.

Local language translations are available at the following website:

http://supportcentral.motorola.com/

Any changes or modifications to Motorola/Symbol Technologies equipment, not expressly approved by Motorola/Symbol Technologies, could void the user's authority to operate the equipment.

Motorola/Symbol devices are professionally installed, the Radio Frequency Output Power will not exceed the maximum allowable limit for the country of operation.

Antennas: Use only the supplied or an approved replacement antenna. Unauthorized antennas, modifications, or attachments could cause damage and may violate regulations.

This device is only to be used with a Motorola/Symbol Technologies Wireless Switch.

Country Approvals

Regulatory markings, subject to certification, are applied to the device signifying the radio(s) is/are approved for use in the following countries: United States, Canada, Japan, China, S. Korea, Australia, and Europe.

Please refer to the Declaration of Conformity (DoC) for details of other country markings. This is available at: http://www.motorola.com/doc

Note: For 2.4GHz or 5GHz Products: Europe includes, Austria, Belgium, Bulgaria, Czech Republic, Cyprus, Denmark, Estonia, FinlFor 2.4GHz or 5GHz Products: Europe includes, Austria, Belgium, Bulgaria, Czech Republic, Cyprus, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Liechtenstein, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovak Republic, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.



Operation of the device without regulatory approval is illegal.

Health and Safety Recommendations

Country Selection

Select only the country in which you are using the device. Any other selection will make the operation of this device illegal.

Frequency of Operation – FCC and IC

You are reminded of the need to observe restrictions on the use of radio devices in fuel depots, chemical plants etc. and areas where the air contains chemicals or particles (such as grain, dust, or metal powders).

5 GHz Only

The use in the UNII (Unlicensed National Information Infrastructure) band 1 (5150-5250 MHz) is restricted to Indoor Use Only; any other use will make the operation of this device illegal.

Industry Canada Statement:

Caution: The device for the band 5150-5250 MHz is only for indoor usage to reduce potential for harmful interference to co-Channel mobile satellite systems. High power radars are allocated as primary users (meaning they have priority) of 5250-5350 MHz and 5650-5850 MHz and these radars could cause interference and/or damage to LE-LAN devices.

Avertissement: Le dispositif fonctionnant dans la bande 5150-5250 MHz est réservé uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux.

Les utilisateurs de radars de haute puissance sont désignés utilisateurs principaux (c.-à-d., qu'ils ont la priorité) pour les bands 5250-5350 MHz et 5650-5850 MHz et que ces radars pourraient causer du brouillage et/ou des dommages aux dispositifs LAN-EL.

Health and Safety Recommendations

Warnings for Use of Wireless Devices



Please observe all warning notices with regard to the usage of wireless devices.

Potetially Hazerdous Atmospheres - Fixed Installations

You are reminded of the need to observe restrictions on the use of radio devices in fuel depots, chemical plants etc. and areas where the air contains chemicals or particles (such as grain, dust, or metal powders).

Safety in Hospitals



Wireless devices transmit radio frequency energy and may affect medical electrical equipment. When installed adjacent to other equipment, it is advised to verify that the adjacent equipment is not adversely affected.

Pacemakers

Pacemaker manufacturers recommended that a minimum of 15cm (6 inches) be maintained between a handheld wireless device and a pacemaker to avoid potential interference with the pacemaker. These recommendations are consistent with independent research and recommendations by Wireless Technology Research.

Persons with Pacemakers:

- Should ALWAYS keep the device more than 15cm (6 inches) from their pacemaker when turned ON.
- Should not carry the device in a breast pocket.
- Should use the ear furthest from the pacemaker to minimize the potential for interference.
- If you have any reason to suspect that interference is taking place, turn OFF your device.

Other Medical Devices

Please consult your physician or the manufacturer of the medical device, to determine if the operation of your wireless product may interfere with the medical device.

RF Exposure Guidelines

Safety Information

Reducing RF Exposure - Use Properly

Only operate the device in accordance with the instructions supplied.

International

The device complies with internationally recognized standards covering human exposure to electromagnetic fields from radio devices. For information on "International" human exposure to electromagnetic fields refer to the Motorola/Symbol *Declaration of Conformity* (DoC) at: http://www.motorola.com/doc

EU

Remote and Standalone Antenna Configurations

To comply with EU RF exposure requirements, antennas that are mounted externally at remote locations or operating near users at stand-alone desktop of similar configurations must operate with a minimum separation distance of 20 cm from all persons.

US and Canada

Co-located statement

To comply with FCC RF exposure compliance requirement, the antennas used for this transmitter must not be co-located or operating in conjunction with any other transmitter/antenna except those already approved in this filling.

Remote and Standalone Antenna Configurations

To comply with FCC RF exposure requirements, antennas that are mounted externally at remote locations or operating near users at stand-alone desktop of similar configurations must operate with a minimum separation distance of 20 cm from all persons.

Power Supply

Use ONLY a LISTED Motorola, Type no. PWRS-14000-148R (12VDC @ 4.16A), direct plug-in power supply, marked Class 2 (IEC60950-1, SELV).

This device can be powered from a 802.3af compliant power source which is certified by the appropriate agencies.

Use of alternative Power Supply will invalidate any approvals given to this unit and may be dangerous.

Wireless Devices - Countries

Country Selection

Select only the country in which you are using the device. Any other selection will make the operation of this device illegal.



NOTE

The US only models (AP-6522-66030-US and AP-6522-66040-US) have the country code permanently set to the US. The EU only models (AP-6522-66030-EU and AP-6522-66040-EU) have the country code permanently set to Europe. The WR models (AP-6522-66030-WR and AP-6522-66040-WR) cannot be configured for use in the US or Europe.

Operation in the US and Canada

The use on UNII (Unlicensed National Information Infrastructure) Band 1 5150-5250 MHz is restricted to indoor use only, any other use will make the operation of this device illegal.

The available channels for 802.11 bg operation in the US are Channels 1 to 11. The range of channels is limited by firmware.

Radio Frequency Interference Requirements—FCC



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 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.

Radio Transmitters (Part 15)

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.

Radio Frequency Interference Requirements – Canada

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Radio Transmitters

For RLAN Devices:

The use of 5 GHz RLAN's, for use in Canada, have the following restrictions:

Restricted Band 5.60 – 5.65 GHz

This device complies with RSS 210 of Industry Canada. 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.

Label Marking: The Term "IC:" before the radio certification signifies that Industry Canada technical specifications were met.



CE Marking and European Economic Area (EEA)

The use of 2.4GHz RLAN's, for use through the EEA, have the following restrictions:

- Maximum radiated transmit power of 100 mW EIRP in the frequency range 2.400 -2.4835 GHz.
- France outside usage, the equipment is restricted to 2.400-2.45 GHz frequency range.
- Italy requires a user license for outside usage.

Statement of Compliance

Motorola hereby, declares that this device is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC. A Declaration of Conformity may be obtained from http://www.motorola.com/doc.

Korea Warning Statement for Class B

기 종 별	사용 차 안 내 문
B급 기기 ((가정용 방송통신기기)	이 기기는 가정용 (B급) 으로 전자파적합등록을 한 기기로서 주로 가정에서 사용하는 것을 목적 으로 하며, 모든 지역에서 사용할 수 있습니다
Class B (Broadcasting Communication Device for Home Use)	This device obtained EMC registration mainly for home use (Class B) and may be used in all areas.

Other Countries

Australia

Use of 5GHz RLAN's in Australia is restricted in the following band 5.50 – 5.65GHz.

Brazil

Declarações Regulamentares para AP6522 - Brasil

Nota: A marca de certificação se aplica ao Transceptor, modelo AP6522. 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. Para maiores informações sobre ANATEL consulte o site: www.anatel.gov.br

Chile

Este equipo cumple con la Resolución No 403 de 2008, de la Subsecretaria de telecomunicaciones, relativa a radiaciones electromagnéticas.

<u>Mexico</u>

Restrict Frequency Range to: 2.450 – 2.4835 GHz.

<u>Taiwan</u>

<u>臺灣</u>

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。

在 5.25-5.35 秭赫頻帶內操作之無線資訊傳輸設備, 限於室內使用

Korea

당해 무선설비는 운용 중 전파혼신 가능성이 있음

당해 무선설비 는전파혼 신 가능성이 있으므로 인명안전과 관련된 서비스는 할 수 없습니다 .

Turkish WEEE Statement of Compliance

EEE Yönetmeliğine Uygundur



Waste Electrical and Electronic Equipment (WEEE)

English: For EU Customers: All products at the end of their life must be returned to Motorola for recycling. For information on how to return product, please go to: http://www.motorola.com/recycling/weee.

Français: Clients de l'Union Européenne: Tous les produits en fin de cycle de vie doivent être retournés à Motorola pour recyclage. Pour de plus amples informations sur le retour de produits, consultez :

http://www.motorola.com/recycling/weee.

Español: Para clientes en la Unión Europea: todos los productos deberán entregarse a Motorola al final de su ciclo de vida para que sean reciclados. Si desea más información sobre cómo devolver un producto, visite: http://www.motorola.com/recycling/weee.

Bulgarish: За клиенти от ЕС: След края на полезния им живот всички продукти трябва да се връщат на Motorola за рециклиране. За информация относно връщането на продукти, моля отидете на адрес:

http://www.motorola.com/recycling/weee.

Deutsch: Für Kunden innerhalb der EU: Alle Produkte müssen am Ende ihrer Lebensdauer zum Recycling an Motorola zurückgesandt werden. Informationen zur Rücksendung von Produkten finden Sie unter http://www.motorola.com/recycling/weee.

Italiano: per i clienti dell'UE: tutti i prodotti che sono giunti al termine del rispettivo ciclo di vita devono essere restituiti a Motorola al fine di consentirne il riciclaggio. Per informazioni sulle modalità di restituzione, visitare il seguente sito Web: http://www.motorola.com/recycling/weee.

Português: Para clientes da UE: todos os produtos no fim de vida devem ser devolvidos à Motorola para reciclagem. Para obter informações sobre como devolver o produto, visite: http://www.motorola.com/recycling/weee. Nederlands: Voor klanten in de EU: alle producten dienen aan het einde van hun levensduur naar Motorola te worden teruggezonden voor recycling. Raadpleeg http://www.motorola.com/recycling/weee voor meer informatie over het terugzenden van producten.

Polski: Klienci z obszaru Unii Europejskiej: Produkty wycofane z eksploatacji nale¿y zwróciæ do firmy Motorola w celu ich utylizacji. Informacje na temat zwrotu produktów znajduj¹ siê na stronie internetowej

http://www.motorola.com/recycling/weee.

Čeština: Pro zákazníky z EU: Všechny produkty je nutné po skonèení jejich životnosti vrátit spoleènosti Motorola k recyklaci. Informace o způsobu vrácení produktu najdete na webové stránce:

http://www.motorola.com/recycling/weee.

Eesti: EL klientidele: kõik tooted tuleb nende eluea lõppedes tagastada taaskasutamise eesmärgil Motorola'ile. Lisainformatsiooni saamiseks toote tagastamise kohta külastage palun aadressi:

http://www.motorola.com/recycling/weee.

Magyar: Az EU-ban vásárlóknak: Minden tönkrement terméket a Motorola vállalathoz kell eljuttatni újrahasznosítás céljából. A termék visszajuttatásának módjával kapcsolatos tudnivalókért látogasson el a http://www.motorola.com/recycling/weee weboldalra.

Svenska: För kunder inom EU: Alla produkter som uppnått sin livslängd måste returneras till Motorola för återvinning. Information om hur du returnerar produkten finns på http://www.motorola.com/recycling/weee.

Suomi: Asiakkaat Euroopan unionin alueella: Kaikki tuotteet on palautettava kierrätettäväksi Motorola-yhtiöön, kun tuotetta ei enää käytetä. Lisätietoja tuotteen palauttamisesta on osoitteessa http://www.motorola.com/recycling/weee.

Dansk: Til kunder i EU: Alle produkter skal returneres til Motorola til recirkulering, når de er udtjent. Læs oplysningerne om returnering af produkter på: http://www.motorola.com/recycling/weee.

Ελληνικά: Για πελάτες στην Ε.Ε.: Όλα τα προϊόντα, στο τέλος της διάρκειας ζωής τους, πρέπει να επιστρέφονται στην Motorola για ανακύκλωση. Για περισσότερες πληροφορίες σχετικά με την επιστροφή ενός προϊόντος, επισκεφθείτε τη διεύθυνση http://www.motorola.com/recycling/weee στο Διαδίκτυο.

Malti: Għal klijenti fl-UE: il-prodotti kollha li jkunu waslu fl-aħħar tal-ħajja ta' l-użu tagħhom, iridu jiġu rritornati għand Motorola għar-riċiklaġġ. Għal aktar tagħrif dwar kif għandek tirritorna l-prodott, jekk jogħġbok żur: http://www.motorola.com/recycling/weee.

Românesc: Pentru clienții din UE: Toate produsele, la sfârșitul duratei lor de funcționare, trebuie returnate la Motorola pentru reciclare. Pentru informații despre returnarea produsului, accesați: http://www.motorola.com/recycling/weee.

Slovenski: Za kupce v EU: vsi izdelki se morajo po poteku življenjske dobe vrniti podjetju Motorola za reciklažo. Za informacije o vračilu izdelka obiščite: http://www.motorola.com/recycling/weee.

Slovenčina: Pre zákazníkov z krajín EU: Všetky výrobky musia byť po uplynutí doby ich životnosti vrátené spoločnosti Motorola na recykláciu. Bližšie informácie o vrátení výrobkov nájdete na:

http://www.motorola.com/recycling/weee.

Lietuvių: ES vartotojams: visi gaminiai, pasibaigus jų eksploatacijos laikui, turi būti grąžinti utilizuoti į kompaniją "Motorola". Daugiau informacijos, kaip gražinti gamini, rasite: http://www.motorola.com/recycling/weee.

Latviešu: ES klientiem: visi produkti pēc to kalpošanas mūža beigām ir jānogādā atpakaļ Motorola otrreizējai pārstrādei. Lai iegūtu informāciju par produktu nogādāšanu Motorola, lūdzu, skatiet: http://www.motorola.com/recycling/weee.

Türkçe: AB Müşterileri için: Kullanım süresi dolan tüm ürünler geri dönüştürme için Motorola'ya iade edilmelidir. Ürünlerin nasıl iade edileceği hakkında bilgi için lütfen şu adresi ziyaret edin: http://www.motorola.com/recycling/weee.

6 Part Numbers, Support and Sales

Part Number	Description
AP-6522-66030-US	Dual 802.11n radio AP6522. Plastic enclosure with internal antennas. For use in the US deployments only.
AP-6522-66030-EU	Dual 802.11n radio AP6522. Plastic enclosure with internal antennas. For use in European countries only.
AP-6522-66030-WR	Dual 802.11n radio AP6522. Plastic enclosure with internal antennas. For use in non-US countries only.
AP-6522-66040-US	Dual 802.11n radio AP6522. Metal enclosure with external antenna connectors. For use in US deployments only.
AP-6522-66040-EU	Dual 802.11n radio AP6522. Metal enclosure with external antenna connectors. For use in European countries only .
AP-6522-66040-WR	Dual 802.11n radio AP6522. Metal enclosure with external antenna connectors. For use in non-US countries only .

Motorola Solutions Support Central

If you have a problem with your equipment, contact support for your region. Support and issue resolution is provided for products under warranty or that are covered by a services agreement. Contact information and web self-service is available by visiting http://supportcentral.motorola.com/.

When contacting support, please provide the following information:

- Serial number of the unit
- Model number or product name
- Software type and version number

Motorola Solutions responds to calls by email or telephone within the time limits set forth in support agreements. If you purchased your product from a Motorola Solutions business partner, contact that business partner for support.

Customer Support Web Sites

Motorola Solutions' Support Central Web site, located at http://supportcentral.motorola.com/ provides information and online assistance including developer tools, software downloads, product manuals and online repair requests.

Manuals

http://supportcentral.motorola.com/support/product/manuals.do

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8 AP6522 Access Point China ROHS Compliance

		1				
部件名称 (Parts)	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)	0	0	0	0	0	0
电路模块 (Circuit Modules)	Х	0	0	0	0	0
电缆及电缆组件 (Cables and Cable Assemblies)	Х	0	0	0	0	0
塑料和聚合物部件 (Plastic and Polymeric Parts)	0	0	0	0	0	0
光学和光学组件 (Optics and Optical Components)	0	0	0	0	0	0
电池 (Batteries)	0	0	0	0	0	0

- O: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/T11363-2006 标准规定的限量要求以下。
- X: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/T11363-2006 标准规定的限量要求。

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