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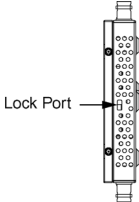
Sweden/Sverige	84452900	1-800-347-0178 Inside US +1-954-255-2610 Outside US	Contact local distributor or call +44 118 945 7360	Distributor Operations
United States	1-800-653-5350 1-631-738-2400	Canada	905-629-7226	
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South Africa	11-8095311	Spain/España	91 324 40 00 +34 91 324 40 00	Inside Spain Outside Spain

contact the Symbol Support Center:

Service Information
Before using the unit, it must be configured to operate in the facility's network and run your applications. If you have a problem running your unit or using your equipment, contact your facility's Technical or Systems Support. If there is a problem with the equipment, they will

Lock Port

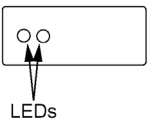
The lock port, compatible with Kensington-style security cables, is on the side of the case.



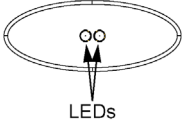
LED Indicators

The unit has LED activity indicators on the front of the case for a wall mount. With the unit mounted above a ceiling, LEDs are at the center of an oval badge on the ceiling; a light pipe enables viewing the back LEDs through the ceiling tile.

Wall Mount

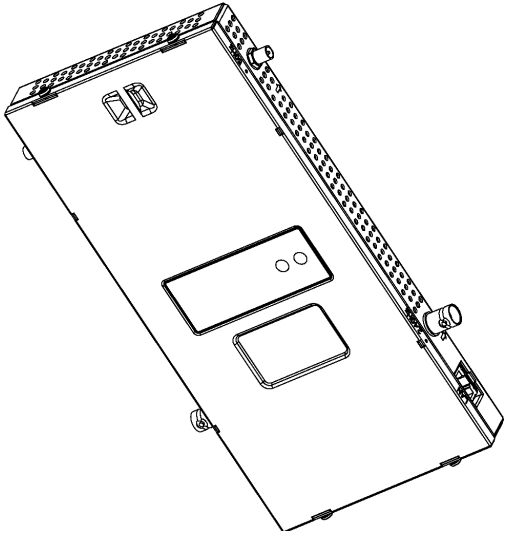


Above Ceiling Mount



The LEDs provide a status display indicating error conditions, transmission, and network activity for the 802.11a (amber) radio or the 802.11b/g (green) radio.

Task	802.11a Activity LED Amber	802.11b/g Activity LED Green
Booting	The amber LED flashes three times per second until firmware is loaded. During boot, 802.11a mobiles cannot associate.	The green LED flashes three times per second until firmware is loaded. During boot, 802.11b/g mobiles cannot associate.
Normal	After adoption, the amber LED is steady or flashes with 802.11a radio traffic.	After adoption, the green LED is steady or flashes with 802.11b/g radio traffic.
Error	The amber LED flashes once per second if an error prevents the 802.11a radio from operating normally.	The green LED flashes once per second if an error prevents the 802.11b/g radio from operating normally.



WSAP-5100-100-WW
802.11a/b/g Access Port External Antenna Model

Quick Installation Guide

Features

- Supports a single antenna or dual antennas in diversity mode
- Reverse BNC connectors for 2.4-2.5Ghz and Reverse SMA connectors for 4.9-5.825Ghz (Primary Antenna connectors marked • and Secondary Antenna connectors marked ••)
- One RJ-45 connector
- Two redundant sets of LED indicators, top and bottom; slots next to the bottom LEDs are for a clip on the light pipe
- Point for a safety wire loop
- Kensington-compatible lock port
- Slots for wall mounting

The AP 300 Access Port has one RJ-45 connector supporting an 10/100 Ethernet port and requires 802.3af-compliant power from an external source.

The AP 300 Access Port comprises two 802.11 radios: an 802.11b/g radio operating in the 2.4 to 2.5Ghz band and an 802.11a radio operating in the 4.9 to 5.875Ghz band. Each radio has an embedded controller which runs local firmware used to perform the functions of the lower 802.11 MAC. All upper MAC functions and MAC management are controlled by the Wireless Switch.

Motherboard firmware enables the unit to boot after either a power up or a watchdog reset. After self-boot, the motherboard sends an "I am alive" message into the network to be adopted and loaded with the actual runtime code. The boot firmware on the motherboard and the firmware downloaded from the switch can be updated via the Ethernet interface from the Wireless Switch.

4.593.186; 4.603.262; 4.607.156; 4.652.750; 4.673.805; 4.736.095; 4.758.717; 4.806.248; 4.816.660; 4.845.350; 4.896.026; 4.897.532; 4.923.681; 5.017.765; 5.021.641; 5.029.183; 5.047.617; 5.103.461; 5.113.445; 5.130.520; 5.142.550; 5.149.950; 5.157.887; 5.168.148; 5.188.149; 5.180.904; 5.262.627; 5.262.628; 5.266.787; 5.278.398; 5.280.163; 5.280.164; 5.280.480; 5.280.498; 5.304.786; 5.306.900; 5.324.924; 5.337.361; 5.367.151; 5.373.414; 5.378.882; 5.396.053; 5.396.055; 5.399.846; 5.408.081; 5.410.139; 5.410.140; 5.412.198; 5.420.471; 5.436.440; 5.444.231; 5.449.891; 5.449.893; 5.468.946; 5.471.042; 5.478.998; 5.479.000; 5.479.002; 5.479.441; 5.504.322; 5.519.577; 5.528.621; 5.532.469; 5.543.610; 5.545.889; 5.562.592; 5.567.093; 5.578.810; 5.581.070; 5.589.679; 5.589.880; 5.608.202; 5.619.919; 5.619.928; 5.627.389; 5.637.852; 5.664.229; 5.668.803; 5.675.139; 5.683.929; 5.688.835; 5.705.800; 5.714.740; 5.723.851; 5.734.152; 5.734.153; 5.742.043; 5.745.794; 5.754.387; 5.762.516; 5.763.863; 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Installation Instructions

The AP 300 Access Port mounts either on a wall with mounting screws or in the ceiling.

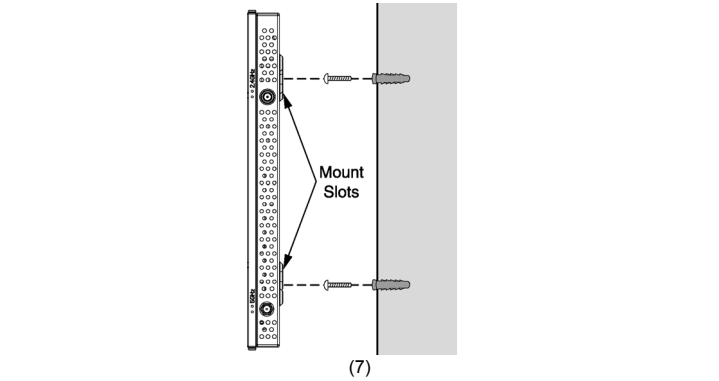
To prepare for installation, perform the following steps:

1. Match the model number on the purchase order with the model numbers in the packing list and on the case of the device shipped.
2. Verify that the contents of the box include the intended AP 300 Access Port and mounting hardware:

Item	Notes
WSAP-5100-100-WW	802.11a and 802.11b/g configurations with external RSMA (.11a radio) and RBNC (.11g radio) antenna connectors. The antenna is a separate purchasable item. Mounting Hardware: Two Phillips pan head self-tapping screws.
	3. Review site survey and network analysis reports to determine the location and mounting position for the AP 300 Access Port.
	4. Connect a CAT-5 cable to a compatible 802.3af power source and run the cable to the installation site. Ensure that there is sufficient slack on the cable to perform the installation steps.

Wall Mount

Wall mounting requires hanging the AP 300 Access Port along its width or length using the pair of slots on the bottom of the unit. The AP 300 can be mounted onto any plaster, wood, or cement wall surface using the provided wall anchors when necessary. The illustration shows a lengthwise mount.



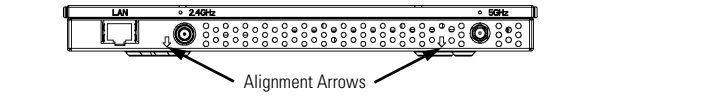
Wall Mount Hardware

- Two Phillips pan head self-tapping screws
- Two wall anchors
- Safety wire (recommended) and security cable (optional)

Note: In the event that the original mounting screws are lost, the following screws can be used instead:(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

Wall Mount Procedure

1. Orient the case on the wall by its width or length.
2. Using the arrows on one edge of the case as guides,



move the edge to the midline of the mounting area and mark points on the midline for the screws.

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.) if the screws are going directly into the wall and 6mm (0.23in.) if the provided wall anchors are being used.

4. If required, loop a safety wire, between .15cm (.06in.) and .25cm (.10in.) in diameter, around the tie post and secure the loop.
5. If required, install and attach a security cable to the unit's lock port.
6. Place the large corner 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. Attach appropriate antennas to the connectors.
9. Attach the Ethernet cable to the unit and to a switch with an 802.3af compatible power source.
10. Verify the unit has power by observing that the LEDs are lit or flashing.

(8)

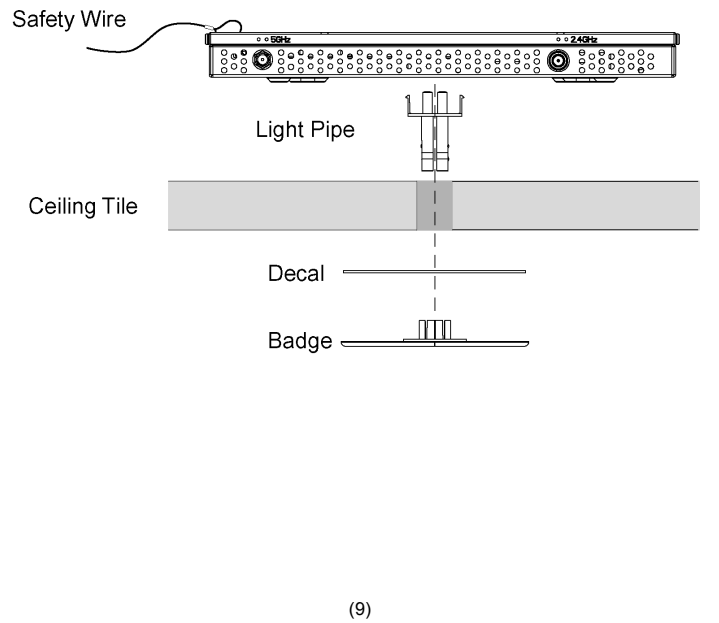
Suspended Ceiling Tile (Plenum) Mount

Ceiling mount requires placing the AP 300 Access Port above a suspended ceiling and installing the provided light pipe for viewing the status lights of the unit.

Note: Notes or warnings about suspended ceiling mounts apply to all installations where the unit is placed on suspended ceiling tile. The case has a safety wire tie point for a standard safety wire.

Caution: Symbol does not recommend mounting the AP 300 Access Port directly to any suspended ceiling tile with a thickness less than 1.27cm (0.5in.) or a suspended ceiling tile with an unsupported span greater than 66cm (26in.). Symbol does strongly recommend fitting the AP 300 Access Port with a safety wire suitable for the specific installation. The safety wire should be a standard ceiling suspension cable or equivalent steel wire between .159cm (.062in.) and .25cm (.10in.) in diameter.

This placement requires installation of the provided light pipe for viewing the status lights of the unit.



Ceiling Mount Hardware

- Light pipe
- Badge for light pipe
- Decal for badge
- Safety wire (recommended) and security cable (optional)

Ceiling Mount Procedure

1. If possible, remove the ceiling tile from its frame and place it, finished side down, on a work surface.
2. If required, install a safety wire, between .15cm (.06in.) and .25cm (.10in.) in diameter, in the ceiling space.
3. If required, install and attach a security cable to the unit's lock port.
4. Mark a point on the upper or unfinished side of the tile.
5. Push the light pipe through the tile at the mark and remove the light pipe. If necessary, use a drill to make a hole in the tile.
6. Snap the clips of the light pipe into the bottom of the case.
7. Fit the light pipe into hole in the tile from its unfinished side.
8. Place the decal on the back of the badge and snap the badge onto the light pipe from the finished side of the tile.
9. Attach appropriate antennas to the connectors.
10. Attach any safety wire to the safety wire tie point or security cable to the unit's lock port.
11. Bring the tile into the ceiling space.
12. Plug the Ethernet cable into the the unit and to a switch with an 802.3af-compatible power source.
13. Verify the unit has power by observing the LEDs.
14. Place the ceiling tile back in its frame.

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Supported Antennas

Contact a Symbol sales associate for these and other available AP 300 Access Port antenna options.

802.11b/g Antennas

Antenna Option	Part Number
2.4-2.5Ghz, 11.2dBi 120 Degree Sector Antenna	ML-2499-11PNA2-01
2.4-2.5Ghz, 2dBi Fixed Point Dipole Antenna	ML-2499-APA2-01
2.4-2.5Ghz, 4.6dBi OMNI Antenna	ML-2499-HPA3-01
2.4-2.5Ghz, 14.2dBi YAGI Antenna	ML-2499-BYGA2-01

802.11a Antennas

Antenna Option	Part Number
4.9GHz to 5.825GHz, 2dBi RSMA Dipole Antenna	ML-5299-APA1-01
4.9GHz to 5.825GHz, 14.2dBi Patch Antenna	ML-5299-WPNA1-01
4.9GHz to 5.825GHz, 5.9dBi OMNI Antenna	ML-5299-HPA1-01

Regulatory Information

All Symbol devices are designed to be compliant with rules and regulations in locations they are sold and will be labeled as required. Any changes or modifications to Symbol Technologies equipment, not expressly approved by Symbol Technologies, could void the user's authority to operate the equipment.

Use only the approved antennas. Unauthorized antennas, modifications, or attachments could cause damage and may violate regulations.

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

Country Approvals

Regulatory markings are applied to the device signifying the radio (s) are approved for use in the following countries: United States, Canada, Australia, Japan & Europe 1,2. Please refer to the Symbol Declaration of Conformity (DoC) for details of other country markings. This is available at <http://www2.symbol.com/doc/>.

Note 1: For 2.4GHz Products: Europe includes, Austria, Belgium, Croatia, Czech Republic, Croatia, Cyprus, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Liechtenstein, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovak Republic, Slovenia, Spain, Sweden, Switzerland, and the United Kingdom.

Note 2: The use of 5GHz RLAN's has varying restrictions of use; please refer to the Symbol Declaration of Conformity (DoC) for details.

Operation of the device without regulatory approval is illegal.

Frequency of Operation

The use on UNII (Unlicensed National Information Infrastructure) Band 1 5150-5250 MHz is restricted to indoor use only.

FCC/EU RF Exposure Guidelines



The device complies with Internationally recognised standards covering Specific Absorption Rate (SAR) related to human exposure to electromagnetic fields from radio devices. It is advisable to use the device only in the normal operating position.

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 or similar configurations must operate with a minimum separation distance of 20 cm from all persons.

Power Supply

This device is powered from a 802.3af compliant power source which is UL approved.

Radio Frequency Interference Requirements

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.

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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

This device complies with RSS 210 of Industry & Science 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.

Label Marking: The Term "IC:" before the radio certification only 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 is restricted to 2.4-2.454 GHz
- Belgium, outside usage is restricted to 2.460-2.4835 GHz
- Italy requires a user license for outside usage.

The use of 5GHz RLAN's has varying restrictions for use within the EEA; please refer to the Symbol Declaration of Conformity (DoC) for details at <http://www2.symbol.com/doc/>

Statement of Compliance

Symbol Technologies, Inc., 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://www2.symbol.com/doc/>

Other Countries

Mexico - Restrict Frequency Range to: 2.450 - 2.4835 GHz.

Sri Lanka - Restrict Frequency Range to: 2.400 – 2.430 GHz.

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Customer Support

Symbol Technologies provides its customers with prompt and accurate customer support. Use the Symbol Support Center as the primary contact for any technical problem, question or support issue involving Symbol products.

If the Symbol Customer Support specialists cannot solve a problem, access to all technical disciplines within Symbol becomes available for further assistance and support. Symbol Customer Support responds to calls by e-mail, telephone or fax within the time limits set forth individual contractual agreements.

When contacting Symbol Customer Support, please provide the following information:

- Device serial number
- Product name or model number
- Software type and version number

North American Contacts	International Contacts
Inside North America, contact Symbol at: Symbol Technologies, Inc. One Symbol Plaza Holtsville, New York 11742-1300	Outside North America, contact Symbol at: Symbol Technologies, Inc. Symbol Place Winnersh Triangle, Berkshire, RG41 5TP United Kingdom
1-631-738-2400/1-800-SCAN 234 Fax: 1-631-738-5990	0800-328-2424 (Inside UK) /+44 118 945 7529 (Outside UK)

For warranty and service information, contact the Symbol Support Center: telephone 1-631-738-6213 or 1-800-653-5350; fax: (631) 563-5410; or E-mail: support@symbol.com.

Web Support Sites and Additional Information

MySymbolCare	http://www.symbol.com/services/msc/
Symbol Services Homepage	http://symbol.com/services/
Symbol Software Updates	http://symbol.com/services/downloads/
Symbol Developer Program	http://software.symbol.com/devzone/
Symbol Knowledge Base	http://kb.symbol.com/register.asp

Obtain additional information by contacting Symbol at:

- 1-800-722-6234, inside North America
- +1-631-738-5200, in/outside North America
- <http://www.symbol.com/>

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