

BlueSecure™ Access Point 1700 Installation Guide



Bluesocket, Inc.
10 North Avenue
Burlington, MA 01803 USA
+1 781-328-0888
www.bluesocket.com
Part Number: 870-01500-M00
Document Version: 5.0

Copyright Notice

Copyright © 2006 Bluesocket, Inc. All rights reserved.

No part of this document may be reproduced in any form or by any means, electronic or manual, including photocopying without the written permission of Bluesocket, Inc.

The products described in this document may be protected by one or more U.S. patents, foreign patents, or pending patents.

This document is provided "as is" without warranty of any kind, either express or implied, including, but not limited to, the implied warranties of merchantability, fitness for a particular purpose, or non-infringement. This publication could include technical inaccuracies or typographical errors. Changes are periodically added to the information herein; these changes will be incorporated in new editions of the document. Bluesocket inc. may make improvements or changes in the products or the programs described in this document at any time.

Trademarks

Bluesocket, The Bluesocket Logo, Secure Mobility, BlueView, BlueSecure, HighDataDensity, DynamicRF, and CellularLAN are trademarks or registered trademarks of Bluesocket, Inc.

All other trademarks, trade names and company names referenced herein are used for identification purposes only and are the property of their respective owners.

Publication Date: October 9, 2006

Contents

Overview	1
Familiarizing Yourself with the BSAP Hardware	2
Fixed Antennas.....	3
LED Indicators	3
Power Supply Connector	3
Ethernet/PoE Connector	4
Reset Button	5
Console Port	5
Kensington Security Slot.....	5
Provisioning Your Bluesocket WLAN for BSAPs	5
Deploying BSAPs on the Same Layer-2 Subnet as the BSC	5
Deploying BSAPs with Layer-3 Connectivity to the BSC	6
Selecting a BSAP Installation Location	7
Connecting and Powering the BSAP	8
Using the BSAP Command Line Interface (CLI).....	9
Accessing the BSAP CLI	9
Navigating the BSAP CLI	10
BSAP Default Configuration.....	11
Setting the BSAP and Home BSC IP Addresses Using the CLI	11
Using the BSAP's Site Survey Mode	12
General Specifications.....	13
Declarations of Conformity and Regulatory Information	15
Safety Warnings for BlueSecure™ Access Point 1700	21
Mounting Instructions	32

Overview

The BlueSecure Access Point 1700 is a next-generation, “thin” access point that works in conjunction with BlueSecure Controllers (BSCs) for enterprise wireless LAN (WLAN) deployments. The BlueSecure Access Point 1700 features dual radios supporting 802.11a and 802.11b/g in a plenum-rated housing, with an embedded MIMO antenna panel under the top cover of the AP.

BSAPs are simple to configure and require only minimal provisioning to make them fully operational on a WLAN secured and managed by a BlueSecure Controller

BSAPs can be directly attached to any existing Layer-2 or Layer-3 Ethernet switch and communicate with the BSC across any subnet boundary. Once the BSAP has discovered and established Layer-2 or Layer-3 communication with its home (i.e., host) BlueSecure Controller, advanced configuration and provisioning may be applied either to individual BSAPs or globally across the entire WLAN using the BSC’s web-based Administrator Console.

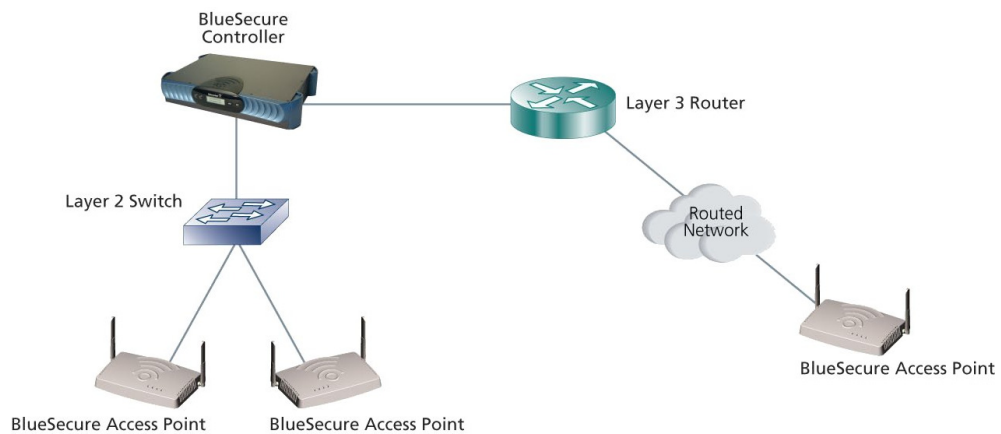


Figure 1: BSAPs Automatically Discover BSCs Across L2/L3 Networks

Once a BlueSecure Access Point has downloaded its configuration from its home BlueSecure Controller, the BSAP and the BSC will establish a tunnel through which all wireless client traffic received by the BSAP will pass for the application of policy by the BSC.

This guide provides complete installation procedures for your BSAP including:

- familiarizing yourself with the BSAP hardware
- provisioning your Bluesocket WLAN for BSAPs
- selecting a BSAP installation location
- connecting and powering the BSAP
- using the BSAP command line interface (CLI)

Familiarizing Yourself with the BSAP Hardware

Figure 2 illustrates the BSAP hardware. Familiarize yourself with the labeled components before attempting to install the BSAP.

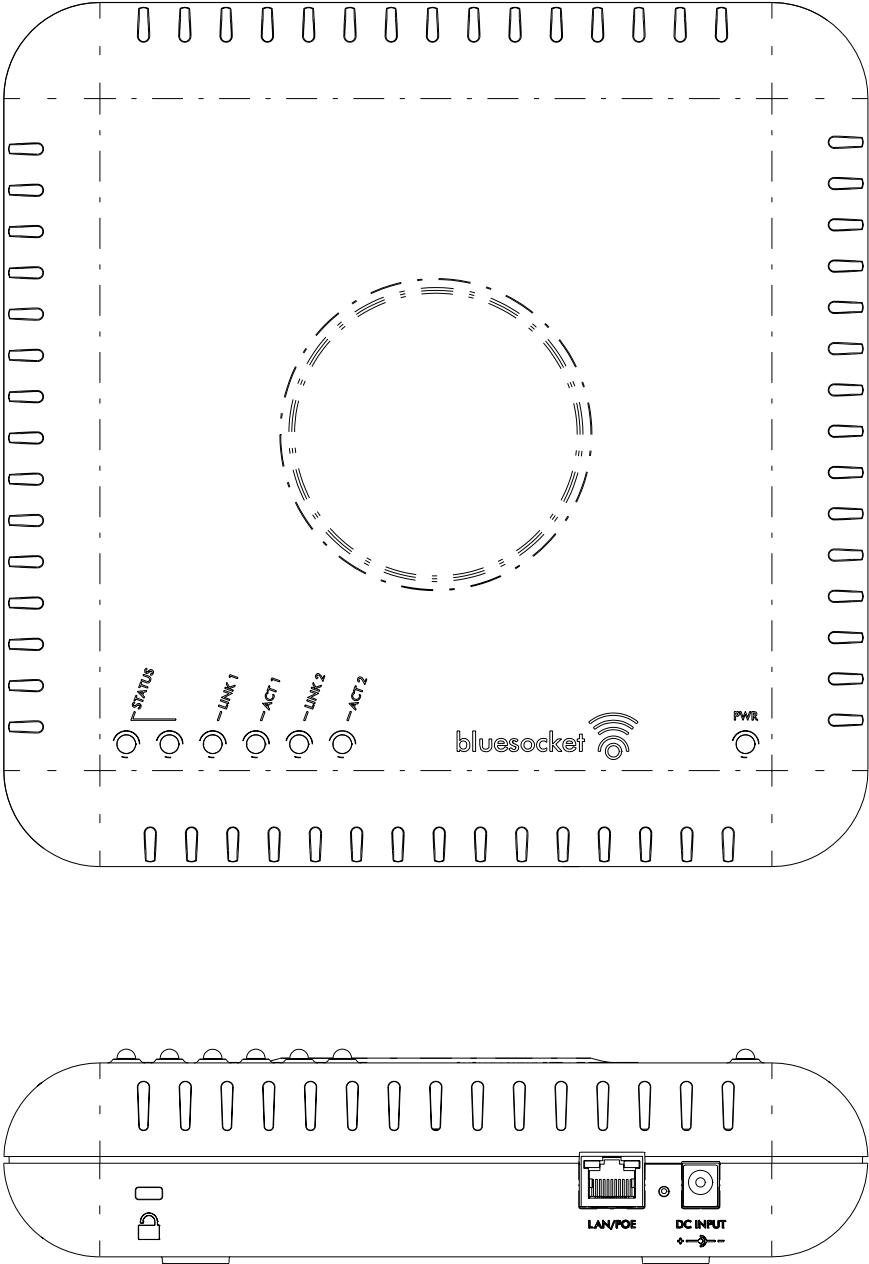


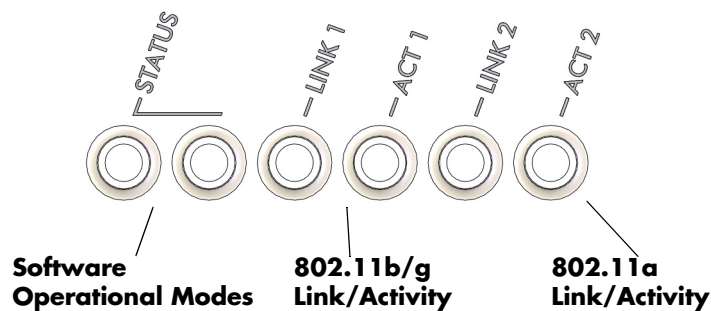
Figure 2: BSAP Hardware Components

Fixed Antennas

The BSAP-1700 utilizes an embedded MIMO antenna panel under the top cover of the AP for wireless communications. The antennas has three elements for each band. Two elements are used for transmit and receive and the third element is used for receiving only. The BSAP-1700 also leverages the embedded Airgo TrueMIMO radios and antenna panel to support high-throughput communications with mobile devices that also use Airgo TrueMIMO chipsets.

LED Indicators

The following grouping of LED indicators is located on the top of the BSAP-1700 housing:



The two status LEDs together indicate the following software operational modes, depending on whether each LED is off, on, or blinking:

Table 1: BSAP Status LEDs

Left Status LED	Right Status LED	Indicates
Off	Off	Failure
On	Off	Waiting for IP Address
Blinking	Off	BSC discovery in progress
On	On	System is operational
Blinking	Blinking	Software download in progress

Link1 and Link 2 - When this LED is on, it indicates that the unit is on and the radio active (note that when unit is booting, the LED defaults to on even though the radio is disabled).

Act1 and Act2 - When this LED is on, it indicates data activity on the Ethernet link.

Power Supply Connector

The BSAP does not have a power switch. It is powered on when connected to the supplied AC power adapter, and the power adapter is connected to a power

source. The BSAP automatically adjusts to any voltage between 100-240 volts at 50 or 60 Hz. No voltage range settings are required.

The BSAP may also receive Power over Ethernet (PoE) from a model BSC-400 Controller, switch or other network device that supplies power over the network cable based on the IEEE 802.3af standard.

Note that if the BSAP is connected to a PoE source device and also connected to a local power source through its AC power adapter, PoE will be disabled.

Ethernet/PoE Connector

The BSAP-1700 has one auto-sensing 10BASE-T/100BASE-TX/1000BaseT RJ-45 connector that can be attached directly to 10BASE-T/100BASE-TX/1000BaseT switches to provide a full-duplex link. These segments must conform to the IEEE 802.3 or 802.3u specifications.

This connector uses an MDI (i.e., internal straight-through) pin configuration. You can use straight-through twisted-pair cable to connect this port to most network interconnection devices such as a switch or router that provide MDI-X ports.

However, when connecting the BSAP to a workstation or other device that does not have MDI-X ports, you must use crossover twisted-pair cable.

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

The Ethernet/PoE RJ-45 connector also supports Power over Ethernet (PoE) based on the IEEE 802.3af standard. Note that if the BSAP is connected to a PoE source device and also connected to a local power source through the AC power adapter, PoE will be disabled.

802.3af specifies Power over Ethernet for "mid-span", where PoE inserters are located in the path between the network and the AP, as well as "DCE", where the power is supplied by the network switch the AP is attached to. Mid-span devices typically provide power on the unused pairs (4+5 & 7+8), where a PoE LAN switch will most likely provide power to the AP on the data pairs (1+2 & 3+6).

If the BSAP-1700 is connected to a PoE LAN switch at either 10BaseT, 100BaseT, or 1000BaseT, and the switch is configured to supply 802.3af standard PoE, the BSAP-1700 will power on and operate correctly. If the BSAP-1700 Ethernet interface is running in either 10BaseT or 100BaseT mode, any standard-based 802.3af mid-span power inserter will work properly, including Bluesocket's POE-001 10/100 Mid-Span PoE Inserter.

Complication arise when using the BSAP-1700 with the Ethernet interface is running in 1000BaseT mode. If a mid-span device is used, the device must be compatible with 1000BaseT, such as the Bluesocket model POE-002, 1000BaseT Mid-Span PoE Inserter. 1000BaseT Ethernet uses all 4 pairs, therefore, 10BaseT / 100BaseT mid-span power inserters incompatible, and will break the communications path between the BSAP-1700 and the network.

Reset Button

Use this button to reset the BSAP or restore its factory default configuration. If you hold down the button for less than 5 seconds, the BSAP will perform a hardware reset. If you hold down the button for 5 seconds or more, any configuration changes you may have made are removed, and the factory default configuration is restored to the BSAP.

Console Port

The BSAP-1700's console port is available through the Ethernet interface.

Kensington Security Slot

The BSAP includes a Kensington security slot on the side panel. You can prevent unauthorized removal of the BSAP by wrapping a Kensington security cable (not provided) around an unmovable object, inserting the lock into the slot, and turning the key.

Provisioning Your Bluesocket WLAN for BSAPs

There are prerequisites that must be met before deploying BSAPs in a live network environment. These prerequisites ensure that the BSAPs are able to discover and connect to a host BlueSecure Controller. Implementing these prerequisites also relieves you from the need to manually configure each deployed BSAP.

The deployment prerequisites for BSAPs are:

- **BSAP IP Address** - Each BSAP requires a unique IP address.
- **Host BlueSecure Controller IP Address** - Each BSAP also needs the IP address of the host BSC to which it will connect and from which it will obtain its software image and configuration.

This section describes how to provision your Bluesocket WLAN when deploying BSAPs:

- on the same Layer-2 subnet as the BSC
- across a routed network with Layer-3 connectivity to the BSC

Deploying BSAPs on the Same Layer-2 Subnet as the BSC

If the BSAPs are on the same subnet as the home BlueSecure Controller as shown in Figure 3, you can run a DHCP server on the BSC to manage IP address assignment to BSAPs. In this scenario, the BlueSecure Controller must be the only DHCP server for the subnet.

Alternatively, you can configure the BlueSecure Controller to run a DHCP relay agent to relay DHCP communications between the BSAPs and a DHCP server on your network.

When you run a DHCP server or a DHCP relay agent on the BSC to assign IP addresses to BSAPs on the managed side, the BSC will also pass its IP address to the BSAPs automatically using vendor-specific option 43. In this way, the BSAPs will learn the home BSC to which they should connect.

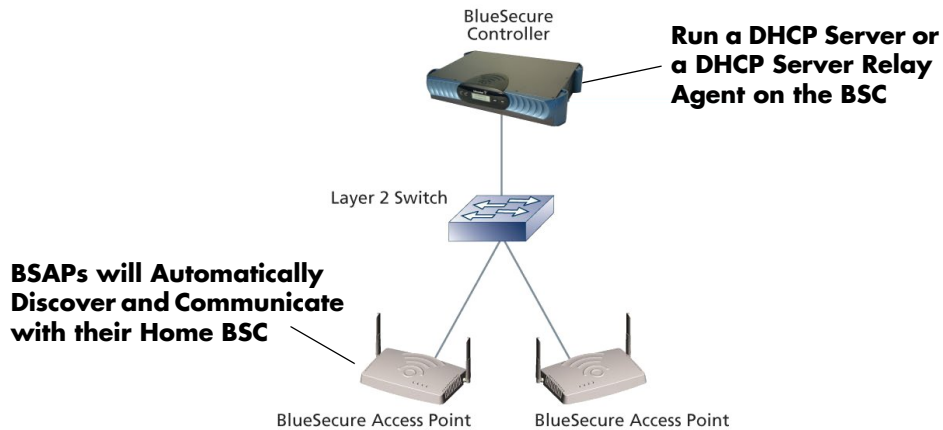


Figure 3: Deploying BSAPs on the Same Layer-2 Subnet as the BSC

See the *BlueSecure Controller Setup and Administration Guide* for detailed DHCP server and DHCP relay agent configuration procedures.

In this deployment scenario, simply connect and power on the BSAPs. They will automatically discover and communicate with their home BSC.

Deploying BSAPs with Layer-3 Connectivity to the BSC

You can also deploy BSAPs on a routed network with Layer-3 connectivity to the BSC as shown in Figure 4.

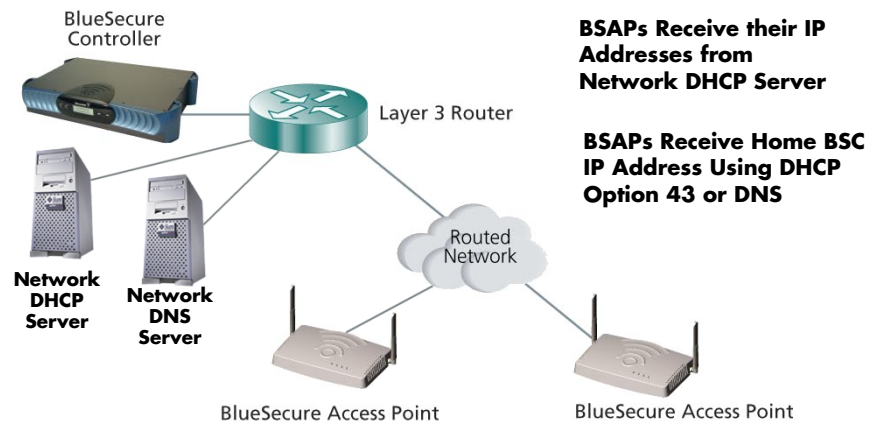


Figure 4: Deploying BSAPs Across a Routed Network

In this deployment scenario, you must ensure that each BSAP is able to communicate with the BSC across the routed network by verifying that:

- there are no NAT devices between the BSAPs and the BSC
- Protocol 97 and TCP/UDP Port 33333 traffic is allowed between the BSAPs and the BSC

Each BSAP will receive its IP address from your existing network DHCP server.

The BSAP also needs the IP address of the home BSC to which it will connect and from which it will obtain its software image and configuration. You can provide the home BSC IP address to a BSAP using one of the following methods:

- **DHCP Server Option 43** - You can manually configure the DHCP server on your network to send BSC IP addresses to BSAPs using DHCP vendor-specific option 43.

In DHCP requests sent from the BSAP, the BSAP uses option 60 Vendor class identifier with a value of **BlueSecure.AP1700** to identify itself to the DHCP server.

Refer to the documentation supplied with your DHCP server when configuring vendor-specific option 43

- **DNS Server Configuration** - BSAPs are factory configured with **apdiscovery** as the DNS hostname. You can configure a DNS server on your network with an entry for apdiscovery with the home BSC Controller IP address as the resolution.

To configure this, add a NAME record to the DNS server for apdiscovery (at the domain server that the BAP will receive). Point this name to one or more BSC IP addresses (managed, protected or VLAN depending on the network configuration).

So for example, if there are two BSCs (192.168.100.23 and 192.168.100.28), and the domain is customer.com, add two NAME records to customer.com, for the name apdiscovery.customer.com. One should resolve to 192.168.100.23 and one to 192.168.100.28. PTR (i.e., pointer) records are not needed for this portion of discovery.

Selecting a BSAP Installation Location

BlueSecure Access Points should be positioned for maximum throughput and range between other BSAPs and wireless client devices. Normally, you should locate the BSAP on the ceiling away from obstructions.

Range and performance are dictated by the distance between the BSAP and client radios, and by obstacles that may be present in a specific building or office environment. The following positioning guidelines are suggested:

- Document all the BSAPs and client devices you wish to include in your wireless network. Record the MAC address, serial number, and placement of each BSAP.
- Wired LAN and power connections must be available for each BSAP at the desired installation location. If a power outlet is not available near the access point, mid-span power inserters are recommended.
- If building blueprints or floor plans are available, use them to define potential client device locations and likely roaming areas.
- Identify possible obstacles or sources of interference that could affect signal strength (for example, walls, metal objects).

- Install the BSAP in an area where large steel structures such as beams, pillars, shelving units, bookcases, and filing cabinets do not obstruct radio signals to and from the BSAP.
- Determine optimal AP placement using Bluesocket's Wireless LANPlanner software. LANPlanner enables network planners to import a map of the facility, note the contents and construction materials, designate user regions and applications to be used and place equipment. The designer then interactively simulates how the wireless signals will propagate and fine-tunes the network design with "what if" analysis to determine optimum performance. Please consult Bluesocket's web site for additional information, and to download free trial software.
- Once BSAPs have been installed and configured, use site survey and monitoring utilities supplied with the client adapters to test signal strength at various locations. Modify the positioning of the BSAPs and client stations as required for optimum performance.

Connecting and Powering the BSAP

Follow these instructions to connect your BlueSecure BSAP to your Bluesocket WLAN and then power it up:

1. Make a note of the 12-character MAC address and the serial number listed on the bottom of the BSAP before mounting the BSAP to a wall or other surface. You will need this information during configuration.
2. Mount the BSAP to a horizontal surface or wall.

Mounting on a Horizontal Surface

To keep the BSAP from sliding on the surface, attach the four rubber feet supplied with your BSAP distribution to the embossed circles on the bottom of the BSAP chassis.

Mounting on a Wall

Refer to the mounting instructions in Appendix B.

3. Position the BSAP-1700 for best radio performance.
The BSAP-1700 utilizes a 6-element MIMO antenna panel under the top cover of the unit. This antenna panel is made up of a combination of horizontally and vertically polarized antenna elements, which should give excellent performance regardless of the orientation of the AP. The BSAP-1700 should, however, be placed where it has the best unobstructed view of the coverage area. If possible, mounting the BSAP-1700 on the ceiling will provide the best performance in a typical office environment. An optional ceiling time mounting kit is available for the BSAP-1700, which provides for a very esthetically pleasing and professional looking installation. For more information, please refer to Bluesocket's web site.
4. The BSAP derives its operating power directly from the RJ-45 connector when connected to a device that provides IEEE 802.3af compliant Power over Ethernet (PoE).



Caution: If the BSAP is used in a medical environment, it must use an IEC/EN60601-1 compliant power adapter. See page 13 for a description of the IEC/EN60601-1 compliant power adapter available from Bluesocket.

5. Verify that the PWR LED stops flashing and remains on, and that the other status LEDs start functioning as described in the section entitled “LED Indicators” on page 3.

6. Connect the BSAP to your Bluesocket WLAN.

You can connect the BSAP-1700 to a 10/100 Mbps Ethernet through a network device such as a hub or a switch, or to a 1000BaseT Gigabit Ethernet interlace. Connect the RJ-45 Ethernet connector on the BSAP’s back panel to your network using category 3, 4, or 5 UTP Ethernet cable. When the BSAP and the connected device are powered on, the BSAP’s Ethernet Link LED should light indicating a valid network connection.



Note: The RJ-45 port on the BSAP provides a full-duplex Ethernet connection using an MDI pin configuration, so you must use a straight-through cable for network connections to hubs or switches that only have MDI-X ports, and a crossover cable for direct network connections to BSC-400s, PCs, servers or other end nodes that only have MDI ports. However, if the device to which you are connecting supports auto-MDI/MDI-X operation, you can use either a straight-through or crossover cable.

Using the BSAP Command Line Interface (CLI)



Note: Normally you will not need to access the BSAP CLI. In a properly provisioned Bluesocket WLAN, the BSAP will automatically discover and communicate with its home BSC. We recommend that you use the CLI to configure the BSAP only in a lab or test environment, or where a pre-defined static IP address is desired.

You can connect a console to the BSAP’s Ethernet port to perform local configuration of the BSAP using its command line interface (CLI). You can use the BSAP’s CLI to manually configure:

- the BSAP’s IP address
- the IP address of the home BSC from which the BSAP will download its configuration and software image
- full- or half-power site survey mode

Accessing the BSAP CLI

Access the BSAP CLI using an SSH client (the example uses putty) For example:

1. The default management IP address for the AP-1700 is 192.168.190.1. Configure your laptop computer to have a static IP address in this same subnet, for example 192.168.0.2.
2. Ping the AP from the laptop to make sure it can be seen.
3. Configure putty to use SSH and then connect to the IP address of the AP (by default 192.168.190.1) on port 2335.

4. Enter the following username and password in lowercase at the displayed CLI login prompts:

BlueAP login: **admin** (i.e., adm “one” n)

Password: **blue1socket** (i.e., blue “one” socket)

The BSAP CLI main menu appears as shown in Figure 5.

Figure 5: BSAP CLI Main Menu

Navigating the BSAP CLI

The BSAP CLI main menu provides access to these options:

- **Network Configuration** - Configure the BSAP’s network settings including its IP address and the IP address of the BSC to which it will connect.
- **Save/Apply Configuration** - After you have configured the BSAP’s network settings, you must apply them before they become active.
- **Restore Defaults** - Restore the BSAP to its default settings.
- **Show Version Information** - Display BSAP version information.
- **Reboot AP** - After applying the BSAP’s configuration settings, you must reboot the BSAP to effect the new configuration.
- **Toggle Half Power Site Survey Mode, Internal Antennas** - Toggle “site survey mode” on/off. In half power site survey mode, the BSAP beacons known SSIDs with its 802.11 a and 802.11 b/g radios operating at half power to facilitate a WLAN site survey. Rebooting the BSAP following a site survey, restores the BSAP’s existing configuration. See page 12 for details on using the BSAP’s site survey mode.

When operating in a submenu, press **h** to return directly to the main menu (or home menu). Press **p** to return to the previous menu.

BSAP Default Configuration

The BSAP is shipped with the following default configuration.

```
IP_ADDR_MODE:      DHCP (0)
IP_ADDR            0.0.0.0
NETMASK           0.0.0.0
GW_ADDR           0.0.0.0
DNS_ADDR          0.0.0.0
WG_ADDR_MODE      Discover BSC (0)
WG_ADDR           0.0.0.0
```

The two options for IP address mode are:

- (0) DHCP - The BSAP runs a DHCP client and receives its IP address from a DHCP server.
- (1) Static IP - You assign the BSAP a static IP address via its CLI.

The two options for WG address mode are:

- (0) Discover - The BSAP automatically discovers the IP address of the BSC to which it is to connect.
- (1) Static Configuration - Using the BSAP CLI, you will configure the IP address of the BSC to which the BSAP is to connect.

Setting the BSAP and Home BSC IP Addresses Using the CLI

To set the BSAP and Home BSC IP addresses using the CLI:

1. Enter **1** at the BSAP CLI main menu command prompt.
The BSAP CLI network configuration menu appears as shown in Figure 6.

Figure 6: BSAP CLI Network Configuration Menu

2. Enter **1** at the Network Cfg prompt to set the IP address mode.
Enter 1 to set the BSAP IP address mode to **static**.
3. Enter **2** at the Network Cfg prompt to set the BSAP's IP address.
Enter the BSAP IP address and subnet mask using the format:
`<address> netmask <netmask>`
4. Enter **3** at the Network Cfg prompt to specify the BSAP's default IP gateway.
5. Enter **4** at the Network Cfg prompt to specify the IP address of the BSAP's primary DNS server.
6. Enter **5** at the Network Cfg prompt to specify the BSC mode, i.e. how the BSAP is to obtain the IP address of its home BSC.
You can set the BSC mode to either **Discover** or **Static BSC**.
Enter 1 to set the BSC mode to Static BSC.
7. Enter **6** at the Network Cfg prompt to specify the IP address of the BSAP's home BSC.
8. Enter **8** at the Network Cfg prompt to review the BSAP network configuration settings you have made.
The network summary includes the MAC addresses of the BSAP's Ethernet and wireless interfaces.
9. Enter **p** at the CLI prompt to return to the main menu.
Enter **2** at the main menu to apply your configuration changes, reboot the BSAP, and put the new configuration settings into effect.
When the BSAP completes its reboot, it will connect to and download its configuration from the home BSC you have configured via the CLI.

Using the BSAP's Site Survey Mode

The BSAP provides a site survey mode that is useful when you are conducting a site survey to determine optimal RF coverage for your facility.

Use option **a)** from the CLI main menu to toggle the BSAP's half-power site survey mode on and off. In half power site survey mode, the BSAP continually beacons the SSID "Bluesocket_Half_Site_Survey_A" from its 802.11 a radio and the SSID "Bluesocket_Half_Site_Survey_B" from its 802.11 b/g radio operating at half power at a rate of 100 milliseconds.

Use option **b)** from the CLI main menu to toggle the BSAP's full-power site survey mode on and off. In full power site survey mode, the BSAP continually beacons the SSID "Bluesocket_Full_Site_Survey_A" from its 802.11 a radio and the SSID "Bluesocket_Full_Site_Survey_B" from its 802.11 b/g radio operating at full power at a rate of 100 milliseconds.

Rebooting the BSAP following a site survey, restores the BSAP's existing configuration.

In general, follow these high-level steps when using the BSAP's site survey mode:

1. Place the BSAPs in your facility into site survey mode.

2. Conduct the site survey using site survey utility software running on a laptop or PDA.
3. After the site survey is complete, reboot the BSAPs to restore their configurations.

General Specifications

Power Supply

Standard

Input: 100-240 AC, 50-60 Hz

Output: 48 VDC, 0.5A

Power consumption: 13.2 watts

European Medical Environment

If you require compliance with EN60601-1 (European Medical Device Standard), either use Power over Ethernet (PoE) or the following power adapter that complies with IEC/EN60601-1 and is available from Bluesocket.

Manufacturer/Model: MEAN WELL/MES30A-8P1J

Input: 100-240VAC, 50-60Hz, 0.8-0.4A

Output: 48VDC, 0.62A

PoE (DC)

Input voltage: 48 volts, 0.2 A, 9.6 watts



Note: Power can also be provided to the access point through the Ethernet port based on IEEE 802.3af Power over Ethernet (PoE) specifications. When both PoE is provided and the adapter is plugged in, PoE will be turned off.

Dimensions

Length: 9 in. (22.9 cm)

Width: 9in. (22.9 cm)

Height: 2 in. (5.1 cm)

Weight

LED Indicators

PWR (Power), Ethernet Link (Ethernet Link/Activity), 802.11a wireless link and activity, 802.11b/g wireless link and activity, and (2) status indicators.

Network Management

The BSAP-1700 can be managed by any of the BlueSecure Controllers, BlueView Management System (BVMS), or through the BSAP-1700's local console interface.

Temperature

Operating: 0 to 55 °C (32 to 131 °F)

Storage: 0 to 70 °C (32 to 158 °F)

Wireless Communications

Wireless Speeds:

802.11b

1/2/5.5/11Mb/s

802.11g

1/2/5.5/6/9/11/12/18/24/36/48/54 Mb/s

802.11a

6/9/12/18/24/36/48/54

2.4 GHz MIMO

24/36/40/42/48/72/80/84/96/108/120/126

2.4 GHz MIMO utilizing Adaptive Channel Expansion

48/72/80/84/96/144/160/168/192/216/240

5 GHz MIMO

24/36/40/42/48/72/80/84/96/108/120/126

Modulation Type: DSSS, OFDM, BPSK, QPSK, CCK, 16QAM, 64QAM

Operating Frequency: 2.400~2.4835GHz, 5.15~5.25GHz & 5.725~5.850GHz

Channel Numbers: 11 (for 2.4GHz Band); 8 for normal mode (for 5GHz Band)

Transmitter Output Power:

+22dBm (for 2.4GHz Band)

+20dBm (for 5.15~5.25GHz Band)

+20dBm (for 5.725~5.850GHz Band)

Compliance

Safety

UL 60950

CAN/CSA C22.2 No. 60950

IEC 60950

EN 60950

UL 2043

EMI & Susceptibility Class B

FCC Part 15.107 and 15.109

ICES-003 (Canada)

EN 301.489-1 and -17 (Europe)

EN60601-1-2

EN5502 & EN55024
EN6100-3-2, -3-3,
Radio Approvals
FCC Part 15.247 and 15.407
FCC ID Registration and ID Number
EN 300.328, EN 301.893 (Europe)
RSS-210 (Canada)
EU Notification Body Letter

Declarations of Conformity and Regulatory Information

FCC 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 a minimum distance of 20 centimeters (8 inches) between the radiator (antenna) and your body.

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

Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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.

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.

For operation within 5.15 ~ 5.25GHz frequency range, it is restricted to indoor environment.

IEEE 802.11b or 802.11g operation of this product in the U.S.A. is firmware-limited to channels 1 through 11.

Industry Canada Statement

Operation is subject to the following two conditions:

- 1) This device may not cause interference, and
- 2) this device must accept any interference, including interference that may cause undesired operation of the device.

This device has been designed to operate with an antenna having a maximum gain of 8 dB. Antenna having a higher gain is strictly prohibited per regulations of Industry Canada. The required antenna impedance is 50 ohms.

To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the EIRP is not more than required for successful communication.

Because high power radars are allocated as primary users (meaning they have priority) in 5250-5350 MHz, these radars could cause interference and/or damage to license exempt LAN devices.

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters (8 inches) between the radiator (antenna) and your body.

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

Declaration of Conformity with Regard to the R&TTE Directive 1999/5/EC

English:	This equipment is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.
Deutsch:	Dieses Gerät entspricht den grundlegenden Anforderungen und den weiteren entsprechenden Vorgaben der Richtlinie 1999/5/EU.
Dansk:	Dette udstyr er i overensstemmelse med de væsentlige krav og andre relevante bestemmelser i Direktiv 1999/5/EF.
Español:	Este equipo cumple con los requisitos esenciales así como con otras disposiciones de la Directiva 1999/5/EC.
Ελληνική:	Αυτός ο εξοπλισμός είναι σε συμμόρφωση με τις ουσιαστικές απαιτήσεις και άλλες διατάξεις της Οδηγίας 1999/5/EC.
Français:	Cet appareil est conforme aux exigences essentielles et aux autres dispositions pertinentes de la Directive 1999/5/EC.
Íslenska:	Þessi búnaður samrýmist lögboðnum kröfum og öðrum ákvæðum tilskipunar 1999/5/ESB.
Italiano:	Questo apparato é conforme ai requisiti essenziali ed agli altri principi sanciti dalla Direttiva 1999/5/EC.
Nederlands:	Deze apparatuur voldoet aan de belangrijkste eisen en andere voorzieningen van richtlijn 1999/5/EC.
Norsk:	Dette utstyret er i samsvar med de grunnleggende krav og andre relevante bestemmelser i EU-direktiv 1999/5/EC.
Português:	Este equipamento satisfaz os requisitos essenciais e outras provisões da Directiva 1999/5/EC.
Suomalainen:	Tämä laite täyttää direktiivin 1999/5/EY oleelliset vaatimukset ja on siinä asetettujen muidenkin ehtojen mukainen.
Svenska:	Denna utrustning är i överensstämmelse med de väsentliga kraven och andra relevanta bestämmelser i Direktiv 1999/5/EC.

The following standards were applied during the assessment of the product against the requirements of the Directive 1999/5/EC:

- Radio: EN 301 893 and EN 300 328 (if applicable)
- EMC: EN 301 489-1 and EN 301 489-17
- Safety: EN 60950 and EN 50385

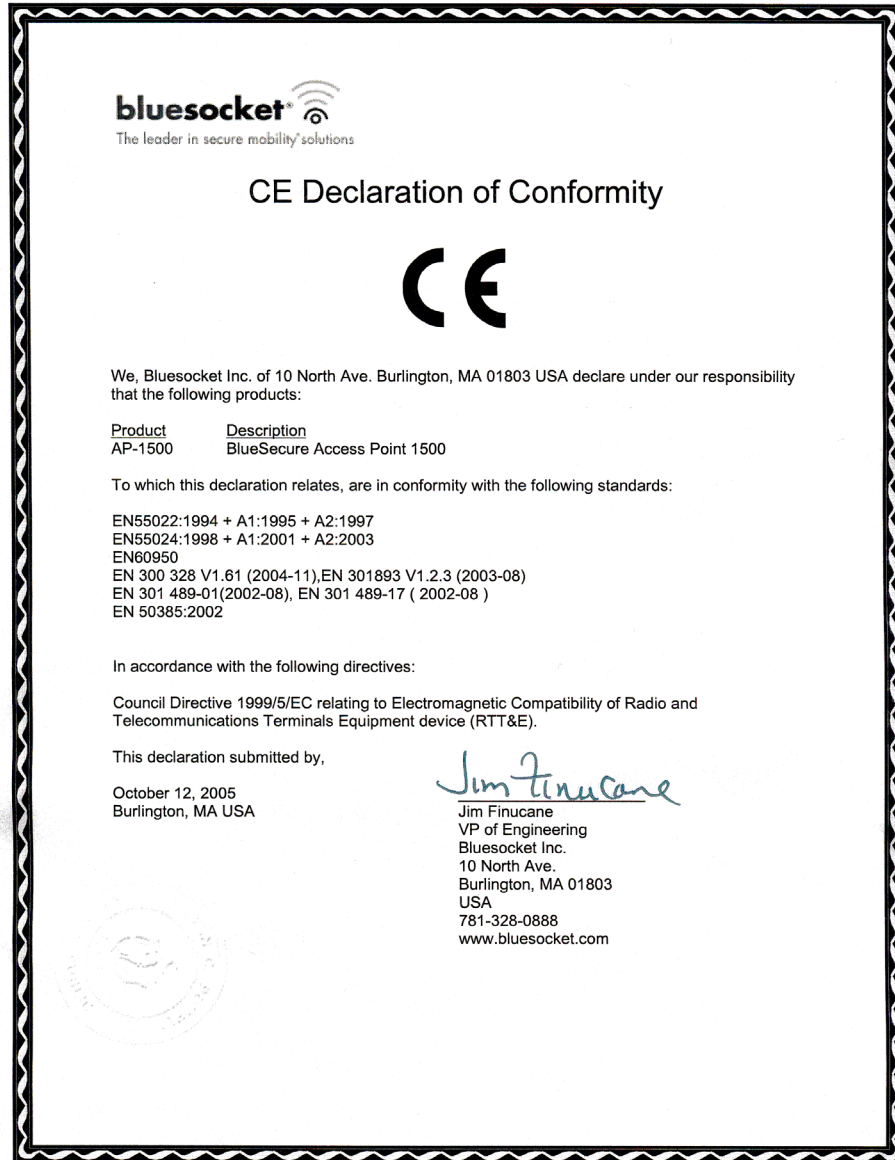
Note: This equipment is intended to be used in all EU and EFTA countries. Outdoor use may be restricted to certain frequencies and/or may require a license for operation. For more details, contact Bluesocket, Inc.

The following CE mark is affixed to the BSAP-1700 Access Point with a 2.4 GHz radio and a 54 Mbps, 5 GHz radio:



Declaration of Conformity Statements for European Union Countries

The Declaration of Conformity statement for the European Union countries is listed below:



National Restrictions

In the majority of the EU and other European countries, the 2.4- and 5-GHz bands have been made available for the use of wireless LANs. Table 2 provides an overview of the regulatory requirements that apply to the 2.4- and 5-GHz bands.

Later in this section you will find an overview of countries in which additional restrictions or requirements or both apply.

The requirements for any country may evolve. Cisco recommends that you check with local authorities for the latest status of their national regulations for both 2.4- and 5-GHz wireless LANs.

Table 2: Overview of Regulatory Requirements for Wireless LANs

Frequency Band (MHz)	Max Power Level (EIRP)^a (mW)	Indoor ONLY	Indoor and Outdoor
2400-2483.5	100		X
5150-5350 ^b	200	X	
5470-57251	1000		X

a. Effective isotropic radiated power (EIRP).

b. Dynamic Frequency Selection and Transmit Power Control is required in the 5250- to 5350-MHz and 5470- to 5725-MHz frequency range.

The following sections identify countries having requirements or restrictions in addition to those listed in Table 2.

Belgium

The Belgian Institute for Postal Services and Telecommunications (BIPT) must be notified of any outdoor wireless link having a range exceeding 300 meters. Bluesocket recommends checking <http://www.bipt.be> for more details.

Draadloze verbindingen voor buitengebruik en met een reikwijdte van meer dan 300 meter dienen aangemeld te worden bij het Belgisch Instituut voor postdiensten en telecommunicatie (BIPT). Zie <http://www.bipt.be> voor meer gegevens.

Les liaisons sans fil pour une utilisation en extérieur d'une distance supérieure à 300 mètres doivent être notifiées à l'Institut Belge des services Postaux et des Télécommunications (IBPT). Visitez <http://www.ibpt.be> pour de plus amples détails.

France

For 2.4 GHz, the output power is restricted to 10 mW EIRP when the product is used outdoors in the band 2454 to 2483 MHz. There are no restrictions when used indoors or when used in other parts of the 2.4 GHz band. For 5 GHz, the frequency bands 5150 to 5350 MHz and 5470 to 5725 MHz will become fully available by November 1, 2005. Until then, only the band 5150 to 5350 MHz is available.

Check <http://www.arcep.fr/> for more details.

Pour la bande 2,4 GHz, la puissance est limitée à 10 mW en p.i.r.e. pour les équipements utilisés en extérieur dans la bande 2454 - 2483,5 MHz. Il n'y a pas de restrictions pour des utilisations en intérieur ou dans d'autres parties de la bande 2,4 GHz.

A 5 GHz, les bandes 5150-5350 MHz et 5470-5725 MHz deviendront entièrement disponibles au 1er novembre 2005. D'ici là, seule la bande 5150-5350 MHz est disponible.

Consultez <http://www.arcep.fr/> pour de plus amples détails.

Germany

Amtsbl/Vfg 89/2003

- Frequenzbereich: 2400 MHz - 2483,5 MHz
- Maximale Strahlungsleistung: 100 mW
- Maximale spektrale Leistungsdichte bei Direktsequenz Spektrogrammverfahren (DSSS) und anderen Zugriffsverfahren: 10 mW/1 MHz
- Einzuhalten ist: ETSI EN 300328 und CEPT/ERC-Empfehlung 70-03

Amtsbl/Vfg 35/2002

1. Frequenzbereich 5150 - 5350 MHz

Maximal zulässige mittlere äquivalente isotrope Strahlungsleistung (EIRP) 200 mW 1) Kanalraster 20 MHz Kanalbandbreite 20 MHz Nutzung ausschließlich innerhalb geschlossener Räume

2. Frequenzbereich 5470 - 5725 MHz

Maximal zulässige mittlere äquivalente isotrope Strahlungsleistung (EIRP) 1 W 2) Kanalraster 20 MHz Kanalbandbreite 20 MHz Nutzung sowohl innerhalb als auch außerhalb geschlossener Räume

3. Weitere Bedingungen zur Vermeidung von Störungen bei anderen Funkanwendungen, die innerhalb der o. g. Frequenzbereiche betrieben werden.

Regelbereich der automatischen Leistungsregelung (mindestens), bezogen auf 200 mW bzw. 1 W entsprechend Nr. 1 und Nr. 2 6 dB Dynamisches Frequenzwahlverfahren 3) in Verbindung mit einer Verteilung der Verkehrslast in Abhängigkeit der genutzten Frequenzbereiche

- bei Nutzung beider Frequenzbereiche entsprechend Nr. 1 und Nr. 2 auf mindestens 14 Kanäle
- bei Nutzung des Frequenzbereichs entsprechend Nr. 2 auf 11 Kanäle

4. Sonderfall, falls ausschließlich der Frequenzbereich 5150 - 5250 MHz ohne dynamisches Frequenzwahlverfahren genutzt wird.

Maximal zulässige mittlere äquivalente isotrope Strahlungsleistung (EIRP) mit automatischer Leistungsregelung, Regelbereich mindestens 6 dB (bezogen auf 60 mW) 60 mW 4)

Maximal zulässige mittlere äquivalente isotrope Strahlungsleistung (EIRP) ohne automatische Leistungsregelung 30 mW 4) Kanalraster 20 MHz Kanalbandbreite 20 MHz Nutzung ausschließlich innerhalb geschlossener Räume

- 1) Bei Kanalbandbreiten < 20 MHz darf die mittlere spektrale Leistungsdichte (EIRP/MHz) nicht größer sein als 10 mW pro 1 MHz.
- 2) Bei Kanalbandbreiten < 20 MHz darf die mittlere spektrale Leistungsdichte (EIRP/MHz) nicht größer sein als 50 mW pro 1 MHz.

- 3) Das dynamische Frequenzwahlverfahren dient insbesondere der Vermeidung von Gleichkanalbetrieb mit Radarsystemen.
- 4) Bei Kanalbandbreiten < 20 MHz darf die mittlere spektrale Leistungsdichte (EIRP/MHz) nicht größer sein als 3 mW pro 1 MHz bei Systemen mit automatischer Leistungsregelung bzw. 1,5 mW pro 1 MHz bei Systemen ohne automatische Leistungsregelung.

Greece

A license from EETT is required for the outdoor operation in the band 5470 to 5725 MHz. Bluesocket recommends checking <http://www.eett.gr> for more details.

Μια άδεια από ΕΕΤΤ απαιτείται για την υπαίθρια λειτουργία στη ζώνη 5470 έως 5725 MHz. Το Bluesocket συστήνει <http://www.eett.gr> για περισσότερες λεπτομέρειες.

Italy

This product meets the National Radio Interface and the requirements specified in the National Frequency Allocation Table for Italy. Unless this wireless LAN product is operating within the boundaries of the owner's property, its use requires a "general authorization." Please check with <http://www.comunicazioni.it/it/> for more details.

Questo prodotto è conforme alla specifiche di Interfaccia Radio Nazionali e rispetta il Piano Nazionale di ripartizione delle frequenze in Italia. Se non viene installato all'interno del proprio fondo, l'utilizzo di prodotti Wireless LAN richiede una "Autorizzazione Generale". Consultare <http://www.comunicazioni.it/it/> per maggiori dettagli.



Note: Although Norway, Switzerland, and Liechtenstein are not EU member states, the EU Directive 1999/5/EC has also been implemented in those countries.



Note: The regulatory limits for maximum output power are specified in EIRP (radiated power). The EIRP level of a device can be calculated by adding the gain of the antenna used (specified in dBi) to the output power available at the connector (specified in dBm).



Note: Countries within the EU with restricted use of the ISM Band frequency range include: CH, DE, DK, FR, FI, GB, IS, NO, NL, PT, SE, BE



Caution: 1. According to the standard of EN60601-1-2, clause 36.202.1 j, "The EQUIPMENT or SYSTEM may exhibit DEGRADATION of performance (e.g. deviation from manufacturer's specifications) that does not affect ESSENTIAL PERFORMANCE or safety."


2. An ESD or EFT noise may cause this Wireless Access Point to time out for a few seconds, but it will self-recover when ESD or EFT noise disappears. Therefore, to avoid any safety concerns that may directly affect a patient's life, this access point is not allowed to be used in patient-coupled or life-supporting equipment for data transmission.

Safety Warnings for BlueSecure™ Access Point 1700

This section provides translations of the following safety warnings for the BlueSecure™ Access Point 1700:

- Warning Definition
- Explosive Device Proximity Warning
- Antenna Installation Warning
- Power Source Warning
- Work During Lightning Activity Warning
- Installation Instructions Warning
- Circuit Breaker (20A) Warning

Warning Definition


 Warning	<p>IMPORTANT SAFETY INSTRUCTIONS</p> <p>This warning symbol means danger. You are in a situation that could cause bodily injury. Before you work on any equipment, be aware of the hazards involved with electrical circuitry and be familiar with standard practices for preventing accidents. Use the statement number provided at the end of each warning to locate its translation in the translated safety warnings that accompanied this device.</p> <p>SAVE THESE INSTRUCTIONS</p>
Waarschuwing	<p>BELANGRIJKE VEILIGHEIDSINSTRUCTIES</p> <p>Dit waarschuwingssymbool betekent gevaar. U verkeert in een situatie die lichamelijk letsel kan veroorzaken. Voordat u aan enige apparatuur gaat werken, dient u zich bewust te zijn van de bij elektrische schakelingen betrokken risico's en dient u op de hoogte te zijn van de standaard praktijken om ongelukken te voorkomen. Gebruik het nummer van de verklaring onderaan de waarschuwing als u een vertaling van de waarschuwing die bij het apparaat wordt geleverd, wilt raadplegen.</p> <p>BEWAAR DEZE INSTRUCTIES</p>
Varoitus	<p>TÄRKEITÄ TURVALLISUUSOHJEITA</p> <p>Tämä varoitusmerkki merkitsee vaaraa. Tilanne voi aiheuttaa ruumiillisia vammoja. Ennen kuin käsittelet laitteistoa, huomioi sähköpiirien käsittelyyn liittyvät riskit ja tutustu onnettomuuksien yleisiin ehkäisytapoihin. Turvallisuusvaroitusten käännökset löytyvät laitteen mukana toimitettujen käännettyjen turvallisuusvaroitusten joukosta varoitusten lopussa näkyvien lausuntonumeroiden avulla.</p> <p>SÄILYTÄ NÄMÄ OHJEET</p>
Attention	<p>IMPORTANTES INFORMATIONS DE SÉCURITÉ</p> <p>Ce symbole d'avertissement indique un danger. Vous vous trouvez dans une situation pouvant entraîner des blessures ou des dommages corporels. Avant de travailler sur un équipement, soyez conscient des dangers liés aux circuits électriques et familiarisez-vous avec les procédures couramment utilisées pour éviter les accidents. Pour prendre connaissance des traductions des avertissements figurant dans les consignes de sécurité traduites qui accompagnent cet appareil, référez-vous au numéro de l'instruction situé à la fin de chaque avertissement.</p> <p>CONSERVEZ CES INFORMATIONS</p>
Warnung	<p>WICHTIGE SICHERHEITSHINWEISE</p> <p>Dieses Warnsymbol bedeutet Gefahr. Sie befinden sich in einer Situation, die zu Verletzungen führen kann. Machen Sie sich vor der Arbeit mit Geräten mit den Gefahren elektrischer Schaltungen und den üblichen Verfahren zur Vorbeugung vor Unfällen vertraut. Suchen Sie mit der am Ende jeder Warnung angegebenen Anweisungsnummer nach der jeweiligen Übersetzung in den übersetzten Sicherheitshinweisen, die zusammen mit diesem Gerät ausgeliefert wurden.</p> <p>BEWAHREN SIE DIESE HINWEISE GUT AUF.</p>

<p>Avvertenza</p>	<p>IMPORTANTI ISTRUZIONI SULLA SICUREZZA</p> <p>Questo simbolo di avvertenza indica un pericolo. La situazione potrebbe causare infortuni alle persone. Prima di intervenire su qualsiasi apparecchiatura, occorre essere al corrente dei pericoli relativi ai circuiti elettrici e conoscere le procedure standard per la prevenzione di incidenti. Utilizzare il numero di istruzione presente alla fine di ciascuna avvertenza per individuare le traduzioni delle avvertenze riportate in questo documento.</p> <p>CONSERVARE QUESTE ISTRUZIONI</p>
<p>Advarsel</p>	<p>VIKTIGE SIKKERHETSINSTRUKSJONER</p> <p>Dette advarselssymbolet betyr fare. Du er i en situasjon som kan føre til skade på person. Før du begynner å arbeide med noe av utstyret, må du være oppmerksom på farene forbundet med elektriske kretser, og kjenne til standardprosedyrer for å forhindre ulykker. Bruk nummeret i slutten av hver advarsel for å finne oversettelsen i de oversatte sikkerhetsadvarslene som fulgte med denne enheten.</p> <p>TA VARE PÅ DISSE INSTRUKSJONENE</p>
<p>Aviso</p>	<p>INSTRUÇÕES IMPORTANTES DE SEGURANÇA</p> <p>Este símbolo de aviso significa perigo. Você está em uma situação que poderá ser causadora de lesões corporais. Antes de iniciar a utilização de qualquer equipamento, tenha conhecimento dos perigos envolvidos no manuseio de circuitos elétricos e familiarize-se com as práticas habituais de prevenção de acidentes. Utilize o número da instrução fornecido ao final de cada aviso para localizar sua tradução nos avisos de segurança traduzidos que acompanham este dispositivo.</p> <p>GUARDE ESTAS INSTRUÇÕES</p>
<p>Advertencial</p>	<p>INSTRUCCIONES IMPORTANTES DE SEGURIDAD</p> <p>Este símbolo de aviso indica peligro. Existe riesgo para su integridad física. Antes de manipular cualquier equipo, considere los riesgos de la corriente eléctrica y familiarícese con los procedimientos estándar de prevención de accidentes. Al final de cada advertencia encontrará el número que le ayudará a encontrar el texto traducido en el apartado de traducciones que acompaña a este dispositivo.</p> <p>GUARDE ESTAS INSTRUCCIONES</p>
<p>Varning!</p>	<p>VIKTIGA SÄKERHETSANVISNINGAR</p> <p>Denna varningssignal signalerar fara. Du befinner dig i en situation som kan leda till personskada. Innan du utför arbete på någon utrustning måste du vara medveten om farorna med elkretsar och känna till vanliga förfaranden för att förebygga olyckor. Använd det nummer som finns i slutet av varje varning för att hitta dess översättning i de översatta säkerhetsvarningar som medföljer denna anordning.</p> <p>SPARA DESSA ANVISNINGAR</p>
<p>Figyelem</p>	<p>FONTOS BIZTONSÁGI ELOÍRÁSOK</p> <p>Ez a figyelmeztető jel veszélyre utal. Sérülésveszélyt rejtő helyzetben van. Mielőtt bármely berendezésen munkát végezte, legyen figyelemmel az elektromos áramkörök okozta kockázatokra, és ismerkedjen meg a szokásos balesetvédelmi eljárásokkal. A kiadványban szereplő figyelmeztetések fordítása a készülékhez mellékelte biztonsági figyelmeztetések között található; a fordítás az egyes figyelmeztetések végén látható szám alapján kereshető meg.</p> <p>ORIZZE MEG EZEKET AZ UTASÍTÁSOKAT!</p>


Предупреждение	<p>ВАЖНЫЕ ИНСТРУКЦИИ ПО СОБЛЮДЕНИЮ ТЕХНИКИ БЕЗОПАСНОСТИ</p> <p>Этот символ предупреждения обозначает опасность. То есть имеет место ситуация, в которой следует опасаться телесных повреждений. Перед эксплуатацией оборудования выясните, каким опасностям может подвергаться пользователь при использовании электрических цепей, и ознакомьтесь с правилами техники безопасности для предотвращения возможных несчастных случаев. Воспользуйтесь номером заявления, приведенным в конце каждого предупреждения, чтобы найти его переведенный вариант в переводе предупреждений по безопасности, прилагаемом к данному устройству.</p> <p>СОХРАНИТЕ ЭТИ ИНСТРУКЦИИ</p>
警告	<p>重要的安全性说明</p> <p>此警告符号代表危险。您正处于可能受到严重伤害的工作环境中。在您使用设备开始工作之前，必须充分意识到触电的危险，并熟练掌握防止事故发生的标准工作程序。请根据每项警告结尾提供的声明号码来找到此设备的安全性警告说明的翻译文本。</p> <p>请保存这些安全性说明</p>
警告	<p>安全上の重要な注意事項</p> <p>「危険」の意味です。人身事故を予防するための注意事項が記述されています。装置の取り扱い作業を行うときは、電気回路の危険性に注意し、一般的な事故防止策に留意してください。警告の各国語版は、各注意事項の番号を基に、装置に付属の「Translated Safety Warnings」を参照してください。</p> <p>これらの注意事項を保管しておいてください。</p>
주의	<p>중요 안전 지침</p> <p>이 경고 기호는 위험을 나타냅니다. 작업자가 신체 부상을 일으킬 수 있는 위험한 환경에 있습니다. 장비에 작업을 수행하기 전에 전기 회로와 관련된 위험을 숙지하고 표준 작업 관례를 숙지하여 사고를 방지하십시오. 각 경고의 마지막 부분에 있는 경고문 번호를 참조하여 이 장치와 함께 제공되는 번역된 안전 경고문에서 해당 번역문을 찾으십시오.</p> <p>이 지시 사항을 보관하십시오.</p>
Aviso	<p>INSTRUÇÕES IMPORTANTES DE SEGURANÇA</p> <p>Este símbolo de aviso significa perigo. Você se encontra em uma situação em que há risco de lesões corporais. Antes de trabalhar com qualquer equipamento, esteja ciente dos riscos que envolvem os circuitos elétricos e familiarize-se com as práticas padrão de prevenção de acidentes. Use o número da declaração fornecido ao final de cada aviso para localizar sua tradução nos avisos de segurança traduzidos que acompanham o dispositivo.</p> <p>GUARDE ESTAS INSTRUÇÕES</p>
Advarsel	<p>VIGTIGE SIKKERHEDSANVISINGER</p> <p>Dette advarselssymbol betyder fare. Du befinder dig i en situation med risiko for legemesbeskadigelse. Før du begynder arbejde på udstyr, skal du være opmærksom på de involverede risici, der er ved elektriske kredsløb, og du skal sætte dig ind i standardprocedurer til undgåelse af ulykker. Brug erklæringsnummeret efter hver advarsel for at finde oversættelsen i de oversatte advarsler, der fulgte med denne enhed.</p> <p>GEM DISSE ANVISINGER</p>
تحذير	<p>إرشادات الأمان الهامة</p> <p>يوضح رمز التحذير هذا وجود خطر. وهذا يعني أنك متواجد في مكان قد ينتج عنه التعرض لإصابات. قبل بدء العمل، احذر مخاطر التعرض للصدمات الكهربائية وكن على علم بالإجراءات القياسية للحيولة دون وقوع أي حوادث. استخدم رقم البيان الموجود في آخر كل تحذير لتحديد مكان ترجمته داخل تحذيرات الأمان المترجمة التي تأتي مع الجهاز. قم بحفظ هذه الإرشادات</p>

<p>Upozoreenje</p>	<p>VAŽNE SIGURNOSNE NAPOMENE</p> <p>Ovaj simbol upozorenja predstavlja opasnost. Nalazite se u situaciji koja može prouzročiti tjelesne ozljede. Prije rada s bilo kojim uređajem, morate razumjeti opasnosti vezane uz električne sklopove, te biti upoznat/na sa standardnim načinima izbjegavanja nesreća. U prevedenim sigurnosnim upozorenjima, priloženima uz uređaj, možete prema broju koji se nalazi uz pojedino upozorenje pronaći i njegov prijevod.</p> <p>SAČUVAJTE OVE UPUTE</p>
<p>Upozornění</p>	<p>DŮLEŽITÉ BEZPEČNOSTNÍ POKYNY</p> <p>Tento upozorňující symbol označuje nebezpečí. Jste v situaci, která by mohla způsobit nebezpečí úrazu. Před prací na jakémkoliv vybavení si uvědomte nebezpečí související s elektrickými obvody a seznamte se se standardními opatřeními pro předcházení úrazům. Podle čísla na konci každého upozornění vyhledejte jeho překlad v přeložených bezpečnostních upozorněních, která jsou přiložena k zařízení.</p> <p>USCHOVEJTE TYTO POKYNY</p>
<p>Προειδοποίηση</p>	<p>ΣΗΜΑΝΤΙΚΕΣ ΟΔΗΓΙΕΣ ΑΣΦΑΛΕΙΑΣ</p> <p>Αυτό το προειδοποιητικό σύμβολο σημαίνει κίνδυνο. Βρίσκεστε σε κατάσταση που μπορεί να προκαλέσει τραυματισμό. Πριν εργαστείτε σε οποιοδήποτε εξοπλισμό, να έχετε υπόψη σας τους κινδύνους που σχετίζονται με τα ηλεκτρικά κυκλώματα και να έχετε εξοικειωθεί με τις συνήθεις πρακτικές για την αποφυγή ατυχημάτων. Χρησιμοποιήστε τον αριθμό δήλωσης που παρέχεται στο τέλος κάθε προειδοποίησης, για να εντοπίσετε τη μετάφρασή της στις μεταφρασμένες προειδοποιήσεις ασφαλείας που συνοδεύουν τη συσκευή.</p> <p>ΦΥΛΑΞΤΕ ΑΥΤΕΣ ΤΙΣ ΟΔΗΓΙΕΣ</p>
<p>אזהרה</p>	<p>הוראות בטיחות חשובות</p> <p>סימן אזהרה זה מסמל סכנה. אתם נמצאים במצב העלול לגרום לפציעה. לפני שתעבוד עם ציוד כלשהו, עליך להיות מודע לסכנות הכרוכות במעגלים חשמליים ולהכיר את הנהלים המקובלים למניעת תאונות. השתמש במספר ההוראה המסופק בסופה של כל אזהרה כדי לאתר את התרגום באזהרות הבטיחות המתורגמות שמצורפות להתקן.</p> <p>שמור הוראות אלה</p>
<p>Opomena</p>	<p>постои кај електричните кола и треба да ги познавате стандардните постапки за спречување на несреќни случаи. Искористете го бројот на изјавата што се наоѓа на крајот на секое предупредување за да го најдете неговиот период во преведените безбедносни предупредувања што се испорачани со уредот.</p> <p>ЧУВАЈТЕ ГИ ОБИЕ НАПАТСТВИЈА</p>
<p>Ostrzeżenie</p>	<p>WAŻNE INSTRUKCJE DOTYCZĄCE BEZPIECZEŃSTWA</p> <p>Ten symbol ostrzeżenia oznacza niebezpieczeństwo. Zachodzi sytuacja, która może powodować obrażenia ciała. Przed przystąpieniem do prac przy urządzeniach należy zapoznać się z zagrożeniami związanymi z układami elektrycznymi oraz ze standardowymi środkami zapobiegania wypadkom. Na końcu każdego ostrzeżenia podano numer, na podstawie którego można odszukać tłumaczenie tego ostrzeżenia w dołączonym do urządzenia dokumencie z tłumaczeniami ostrzeżeń.</p> <p>NINIEJSZE INSTRUKCJE NALEŻY ZACHOWAĆ</p>
<p>Upozornenie</p>	<p>DŮLEŽITÉ BEZPEČNOSTNÉ POKYNY</p> <p>Tento varovný symbol označuje nebezpečenstvo. Nachádzate sa v situácii s nebezpečenstvom úrazu. Pred prácou na akomkoľvek vybavení si uvedomte nebezpečenstvo súvisiace s elektrickými obvodmi a oboznámte sa so štandardnými opatreniami na predchádzanie úrazom. Podľa čísla na konci každého upozornenia vyhladajte jeho preklad v preložených bezpečnostných upozorneniach, ktoré sú priložené k zariadeniu.</p> <p>USCHOVAJTE SI TENTO NÁVOD</p>


Explosive Device Proximity

 Warning	<p>Do not operate your wireless network device near unshielded blasting caps or in an explosive environment unless the device has been modified to be especially qualified for such use.</p>
Waarschuwing	<p>Gebruik dit draadloos netwerkapparaat alleen in de buurt van onbeschermde ontstekers of in een omgeving met explosieven indien het apparaat speciaal is aangepast om aan de eisen voor een dergelijk gebruik te voldoen.</p>
Varoitus	<p>Älä käytä johdotonta verkkolaitetta suojaamattomien räjäytysnallien läheisyydessä tai räjäytysalueella, jos laitetta ei ole erityisesti muunnettu sopivaksi sellaiseen käyttöön.</p>
Attention	<p>Ne jamais utiliser un équipement de réseau sans fil à proximité d'un détonateur non blindé ou dans un lieu présentant des risques d'explosion, sauf si l'équipement a été modifié à cet effet</p>
Warnung	<p>Benutzen Sie Ihr drahtloses Netzwerkgerät nicht in der Nähe ungeschützter Sprengkapseln oder anderer explosiver Stoffe, es sei denn, Ihr Gerät wurde eigens für diesen Gebrauch modifiziert und bestimmt.</p>
Avvertenza	<p>Non utilizzare la periferica di rete senza fili in prossimità di un detonatore non protetto o di esplosivi a meno che la periferica non sia stata modificata a tale proposito.</p>
Advarsel	<p>Ikke bruk den trådløse nettverksenheten nært inntil uisolerte fenghetter eller i et eksplosivt miljø med mindre enheten er modifisert slik at den tåler slik bruk.</p>
Aviso	<p>Não opere o dispositivo de rede sem fios perto de cápsulas explosivas não protegidas ou num ambiente explosivo, a não ser que o dispositivo tenha sido modificado para se qualificar especialmente para essa utilização.</p>
¡Advertencial	<p>No utilizar un aparato de la red sin cable cerca de un detonador que no esté protegido ni tampoco en un entorno explosivo a menos que el aparato haya sido modificado con ese fin.</p>
Varning!	<p>Använd inte den trådlösa nätverksenheten i närheten av oskyddade tändhattar eller i en explosiv miljö om inte enheten modifierats för att kunna användas i sådana sammanhang.</p>


Antenna Installation Warning

 Warning	<p>In order to comply with FCC radio frequency (RF) exposure limits, antennas should be located at a minimum of 7.9 inches (20 cm) or more from the body of all persons.</p>
Waarschuwing	<p>Om te voldoen aan de FCC radiofrequentie (RF) blootstellingslimieten dienen antennes zich minstens 20 cm of meer van de lichamen van alle personen bevinden.</p>
Varoitus	<p>FCC:n antamien radiotaajuuksille altistumista koskevien rajoitusten mukaan antennien on sijoitettava vähintään 20 cm:n päässä kaikista henkilöistä.</p>
Attention	<p>Pour se conformer aux limites d'exposition à la fréquence radio préconisées par la FCC (Federal Communications Commission), les antennes doivent se situer à un minimum de 20 cm de toute personne.</p>
Warnung	<p>Um die in den FCC-Richtlinien festgelegten Expositionshöchstgrenzen für Radiofrequenzen (RF) nicht zu überschreiten, sollten Antennen mindestens 20 cm entfernt von Personen aufgestellt werden.</p>
Avvertenza	<p>Per conformarsi ai limiti FCC di esposizione a radiofrequenza (RF), le antenne devono stare ad una distanza minima di 20 cm dal corpo di ogni persona.</p>
Advarsel	<p>I henhold til eksponeringsgrensene for radiofrekvenser (RF), skal antenner befinne seg på en avstand av minst 20 cm eller mer fra mennesker.</p>
Aviso	<p>Para estar de acordo com as normas FCC de limites de exposição para frequência de rádio (RF), as antenas devem estar distantes no mínimo 20 cm (7,9 pol) do corpo de qualquer pessoa.</p>
¡Advertencial	<p>Para cumplir con los límites de exposición de radio frecuencia (RF) de la Comisión Federal de Comunicaciones (FCC) es preciso ubicar las antenas a un mínimo de 20 cm (7,9 pulgadas) o más del cuerpo de las personas.</p>
Varning!	<p>För att följa FCC-exponeringsgränserna för radiofrekvens (RF), bör antenner placeras på minst 20 cm avstånd från alla människor.</p>


Power Source Warning

 Warning	This product must be connected to a Power over Ethernet (PoE) IEEE 802.3af compliant power source or an IEC60950 compliant limited power source.
Waarschuwing	Dit product moet worden verbonden met een stroomvoorziening die compatibel is met PoE (Power over Ethernet) IEEE 802.3af of een beperkte stroomvoorziening die compatibel is met IEC60950.
Varoitus	Tämä tuote on liitettävä PoE (Power over Ethernet) IEEE 802.3af - yhteensopivaan virtalähteeseen tai IEC60950-yhteensopivaan rajoitettuun virtalähteeseen.
Attention	Ce produit doit être connecté à une source d'alimentation électrique par câble Ethernet (PoE) conforme à la norme IEEE 802.3af ou à une source d'alimentation limitée conforme à la norme IEC60950.
Warnung	Dieses Produkt muss entweder an eine Stromquelle angeschlossen sein, die mit dem IEEE 802.3af-Standard Power over Ethernet (PoE) kompatibel ist oder an eine Stromquelle für geringe Leistungen, die IEC60950-kompatibel ist.
Avvertenza	Questo prodotto deve essere connesso a una fonte di alimentazione di tipo PoE (Power over Ethernet) conforme a IEEE 802.3af o a una fonte di alimentazione conforme a IEC60950.
Advarsel	Denne produktet må være koblet til en Power over Ethernet (PoE) IEEE 802.3af-kompatibel strømkilde eller en IEC60950-kompatibel begrænset strømkilde.
Aviso	Este produto tem de estar ligado a uma fonte de alimentação compatível com a norma IEEE 802.3af, também conhecida pela sigla Power over Ethernet (PoE), ou a uma fonte de alimentação limitada compatível com a norma IEC60950.
¡Advertencial	Debe conectar este producto a una fuente de alimentación sobre ethernet (PoE) conforme con el estándar IEEE 802.3af, o a una fuente limitada conforme con el estándar IEC60950.
Varning!	Denna produkt måste vara ansluten till en PoE IEEE 802.3af-kompatibel strömkälla eller en IEC60950-kompatibel begränsad strömkälla.
Figyelem	Ezt a készüléket vagy az IEEE 802.3af szabványnak megfelelő, a tápellátást Etherneten keresztül kapó (power-over-ethernet, PoE) tápforráshoz, vagy az IEC60950 szabványnak megfelelő, korlátozott tápforráshoz kell csatlakoztatni.
Предупреждение	Это устройство может быть подключено к источнику питания для подачи питания по сети Ethernet (PoE), удовлетворяющему требованиям стандарта IEEE 802.3af, или источнику питания ограниченного применения, удовлетворяющему требованиям стандарта IEC60950.
警告	本产品必须连接到以太网供电型 (Power-Over-Ethernet, 简称PoE) IEEE802.3af 电源或 IEC60950 限制型电源。
警告	この製品はPoE方式のIEEE 802.3af対応の電源またはIEC60950対応の制限電源に接続してください。


Work During Lightning Activity Warning

 Warning	Do not work on the system or connect or disconnect cables during periods of lightning activity.
Waarschuwing	Tijdens onweer dat gepaard gaat met bliksem, dient u niet aan het systeem te werken of kabels aan te sluiten of te ontkoppelen.
Varoitus	Älä työskentele järjestelmän parissa äläkä yhdistä tai irrota kaapeleita ukkosilmalla.
Attention	Ne pas travailler sur le système ni brancher ou débrancher les câbles pendant un orage.
Warnung	Arbeiten Sie nicht am System und schließen Sie keine Kabel an bzw. trennen Sie keine ab, wennes gewittert.
Avvertenza	Non lavorare sul sistema o collegare oppure scollegare i cavi durante un temporale con fulmini.
Advarsel	Utfør aldri arbeid på systemet, eller koble kabler til eller fra systemet når det tordner eller lyner.
Aviso	Não trabalhe no sistema ou ligue e desligue cabos durante períodos de mau tempo (trovoada).
¡Advertencial	No operar el sistema ni conectar o desconectar cables durante el transcurso de descargas eléctricas en la atmósfera.
Varning!	Vid áska skall du aldrig utföra arbete på systemet eller ansluta eller koppla loss kablar.
Figyelem	Villámlás közben ne dolgozzon a rendszeren, valamint ne csatlakoztasson és ne húzzon ki kábeleket!
Предупреждение	Не следует работать с устройством, а также подключать или отключать кабели во время грозы.
警告	请勿在发生雷电时操作系统，也不要在此期间连接或断开电缆。
警告	雷が発生しているときは、システムに手を加えたり、ケーブルの接続や取り外しを行わないでください。

Installation Instruction Warning

 Warning	Read the installation instructions before connecting the system to the power source.
Waarschuwing	Raadpleeg de installatie-instructies voordat u het systeem op de voedingsbron aansluit.
Varoitus	Lue asennusohjeet ennen järjestelmän yhdistämistä virtalähteeseen.
Attention	Avant de brancher le système sur la source d'alimentation, consulter les directives d'installation.
Warnung	Vor dem Anschließen des Systems an die Stromquelle die Installationsanweisungen lesen.
Avvertenza	Consultare le istruzioni di installazione prima di collegare il sistema all'alimentatore.
Advarsel	Les installasjonsinstruksjonene før systemet kobles til strømkilden.
Aviso	Leia as instruções de instalação antes de ligar o sistema à fonte de energia.
¡Advertencial	Lea las instrucciones de instalación antes de conectar el sistema a la red de alimentación.
Varning!	Läs installationsanvisningarna innan du kopplar systemet till strömförsörjningsenheten.
Figyelem	Mielőtt áramforráshoz csatlakoztatná a rendszert, olvassa el az üzembe helyezési útmutatót!
Предупреждение	Перед подключением устройства к источнику электропитания ознакомьтесь с данной инструкцией по установке.
警告	在将系统与电源连接之前，请仔细阅读安装说明。
警告	必ず設置手順を読んでから、システムを電源に接続してください。

Circuit Breaker (20A) Warning

 Warning	This product relies on the building's installation for short-circuit (overcurrent) protection. Ensure that the protective device is rated not greater than: 20A.
Waarschuwing	Dit product is afhankelijk van de installatie van het gebouw voor beveiliging tegen kortsluiting (overstroom). Controleer of de beschermingsinrichting niet meer dan: 20A is.
Varoitus	Tämä tuote on riippuvainen rakennukseen asennetusta oikosulkusuojauksesta (ylivirtasuojauksesta). Varmista, että suojalaitteen mitoitus ei ole yli: 20A.
Attention	Pour ce qui est de la protection contre les courts-circuits (surtension), ce produit dépend de l'installation électrique du local. Vérifiez que le courant nominal du dispositif de protection n'est pas supérieur à : 20A.
Warnung	Dieses Produkt ist darauf angewiesen, dass im Gebäude ein Kurzschluss- bzw. Überstromschutz installiert ist. Stellen Sie sicher, dass der Nennwert der Schutzvorrichtung nicht mehr als: 20A beträgt.
Avvertenza	Questo prodotto dipende dall'impianto dell'edificio per quanto riguarda la protezione contro cortocircuiti (sovracorrente). Assicurarsi che il dispositivo di protezione non abbia un rating superiore a: 20A.
Advarsel	Dette produktet er avhengig av bygningens installasjoner av kortslutnings (overstrøm)-beskyttelse. Påse at verneenheten ikke er merket høyere enn: 20A.
Aviso	Este produto depende das instalações existentes para proteção contra curto-circuito (sobrecarga). Assegure-se de que o fusível ou disjuntor não seja superior a: 20A.
¡Advertencial	Este equipo utiliza el sistema de protección contra cortocircuitos (o sobrecorrientes) del edificio. Asegúrese de que el dispositivo de protección no sea superior a: 20A.
Varning!	Denna produkt är beroende av i byggnaden installerat kortslutningsskydd (överströmsskydd). Kontrollera att skyddsanordningen inte har högre märkvärde än: 20A.
Figyelem	A termék védelmi rendszerének része az épület kábelezésébe épített rövidzárlat (túláram) elleni védelem is. Gondoskodjon róla, hogy a készüléket védő eszköz legfeljebb a következő áramerősségre legyen méretezve: 20A
Предупреждение	Защита устройства от короткого замыкания (перегрузки) осуществляется с помощью оборудования, являющегося частью электропроводки здания. Убедитесь, что номинал защитного устройства не превышает: 20A
警告	此产品的短路（过载电流）保护由建筑物的供电系统提供。确保短路保护设备的额定电流不大于： 20A
警告	この製品は、設置する建物にショート（過電流）保護機構が備わっていることを前提に設計されています。保護装置の定格が以下の値を超えないことを確認してください。 20A

Mounting Instructions