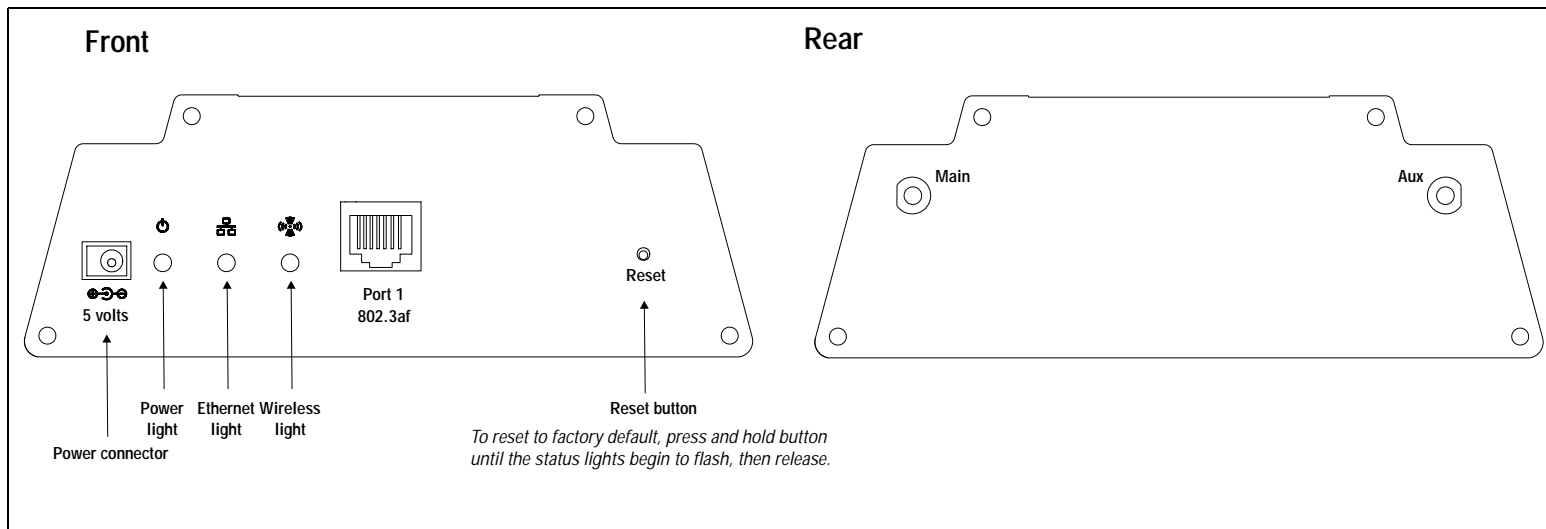# CN200 Quickstart

ColubrisNetworks

This guide explains how to install and start the CN200. For detailed configuration and operating information download the *CN200 Administrator's Guide* from the Colubris Networks web site atd: **register.colubris.com**

Anatomy

Front

Rear

Power connector

Power light

Ethernet light

Wireless light

5 volts

Port 1
802.3af

Reset

Reset button

To reset to factory default, press and hold button until the status lights begin to flash, then release.

Main

Aux

An important note about wireless security

For easy access to the management interface via a wireless connection, the CN200 ships with all wireless security options disabled. Once the unit is installed, it is strongly recommended that you enable a wireless security option to properly safeguard the wireless network from intruders. See the CN200 Administrator's Guide for more information.

Installation

Important: *Installation must be performed by a professional installer familiar with local regulations governing wireless devices.*

Important: *Shielded Ethernet cables must be used for all connections.*

Important: *Do not connect the LAN or Internet port directly to a metropolitan area network (MAN) or wide area network (WAN).*
Important: CH 36, 40, 44, 48 for Indoor use only (5.15-5.25GHz)

When mounting the CN200 on a wall, ceiling or other surface, make sure that:

- the surface you attach the CN200 to and the fasteners you use are able to support at least 5.1 kg (11.25 pounds)
- cable pull (accidental or otherwise), must not make the unit exceed the 5.1 kg (11.25 pound) limit

Plenum installations

Plenum rated cables and attachment hardware must be used if the CN200 is installed in a plenum. Since the CN200 power adapter (optional) is not rated for plenum installations, only the CN200 and appropriate cabling can be located in the plenum.

Note: *Colubris Networks supplied PoE injectors (available separately) cannot be installed inside the plenum.*

Configuration

To configure the CN200, you use the Web-based management tool built into the CN200. You access this tool by establishing a Web browser connection to the CN200. You must use a JavaScript-enabled Web browser (Netscape 7.1 or higher, or Microsoft Internet Explorer 6.0 or higher with all applicable updates), to do this.

1 Connect two antennas.

Use the following antennas (sold separately):

Radio	Antenna type	Colubris Networks part number
802.11b/g	2.4 Ghz.	71-05-0100
802.11a	5Ghz.	71-05-0200
802.11a or b/g	2.4/5 Ghz.	71-05-0300

Both the Main and Aux antennas are used to transmit and receive. If a single antenna is used, it can be attached to either connector, although it is recommended that the Main connector be used.

The connectors are reverse-polarity SMA male jacks. This means antennas or cable connectors must be SMA female connectors with reverse polarity. Antennas should be 2 dBi or less and can be either directly attached or attached via a coax cable.

2 Connect your computer

a. Use a cross-over cable (not supplied) to connect the LAN port on your computer to port 1 on the CN200.

b. Configure your computer with the static IP address 192.168.1.2.

3 Power-on the CN200.

Connect the power supply (sold separately) or use PoE to power-up the CN200.

The CN200 is fully operational when the power light stops flashing.

4 Start the management tool.

a. Start your Web browser.

b. Specify the following in the address box: **HTTPS://192.168.1.1** and press **Enter**.

c. You will be prompted to accept a Colubris Networks security certificate. Do so to continue.

d. The CN200 login page opens. Login with username **admin** and password **admin**.

e. If this is the first time you are logging in, you will be prompted to change the default administrator password. Specify a new password and click **Save**.

5 Specify country of operation.

If you are using the CN200 outside of the USA, set the country that the CN320 is operating in on the **Management > Country** page.

6 Configure the CN200.

a. If the CN200 will be installed as a stand-alone device and not connected to an access controller, open the **Security > Access controller** page and uncheck the **Security Filters** option. Click **Save**.

b. By default, the CN200 operates as a DHCP client to obtain its IP address. In this configuration, the CN200's serial number can be used to manage the device. If static IP addressing is preferred, configure it on the **Network > Ports** page by selecting the **Static** option and then clicking **Configure**.

The CN200 is now ready for operation.

Refer to the *CN200 Administrator's Guide* for additional configuration information.

Regulatory information

The CN200 complies with the following radio frequency and safety standards.

Canada - Industry Canada (IC)
This device complies with RSS 210 of Industry Canada.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 et CNR 210 d'Industrie Canada.

Europe - EU Declaration of Conformity
This device is for indoor use only.

Important: *Users must select the proper country of operation in the management tool to ensure wireless operational settings conform to local regulations.*

Important: *If more than one unit is deployed users must ensure that the operating frequencies are spread amoung different channels (according to channel availability).*

USA - Federal Communications Commission (FCC)
The CN200 complies with Part 15 of FCC Rules. Operation of the CN200 in a system is subject to the following two conditions:

* This device may not cause harmful interference.

* This device must accept any interference that may cause undesired operation.

Caution: Exposure to Radio Frequency Radiation
The radiated output power of the CN200 is far below the FCC radio frequency exposure limits. Nevertheless, the CN200 should be used in such a manner as to minimize the potential for human contact during normal operation. When using this device in combination with Colubris Networks antenna products, a certain separation distance between the antenna and nearby persons has to be kept to ensure FR exposure compliance.

Refer to the Regulatory Statements as identified in the documentation that comes with those products for additional information.

When an external antenna is connected to the CN200 it shall be placed in such a manner as to minimize the potential for human contact during normal operation. To avoid the possibility of exceeding the FCC radio frequency exposure limits, human proximity to the antenna shall not be less than 20 cm (8 inches) during normal operation.

When no external antenna is connected, the RF output power of the CN200 is far below the FCC radio frequency exposure limits. Nevertheless, it is advised to use the CN200 in such a manner that human contact during normal operation is minimized.

Interference Statement
The CN200 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.

The CN200 generates, uses, and can radiate radio frequency energy. If not installed and used in accordance with the instructions, it may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If the CN200 causes harmful interference to radio or television reception, which can be determined by turning the CN200 on and off, the user is encouraged to try and correct the interference by one or more of the following measures:

* Reorient or relocate the receiving antenna.

* Increase the distance between the CN200 and the receiver.

* Connect the CN200 to an outlet on a circuit different from that which the receiver is connected.

* Consult your dealer or an experienced radio/TV technician for help.

Colubris Networks Inc. is not responsible for any radio or television interference caused by unauthorized modification of the CN200, or the substitution or attachment of connecting cables and equipment other than that specified by Colubris Networks Inc.

The correction of interference caused by such unauthorized modification, substitution or attachment is the responsibility of the user.

Health Information

The CN200, like other radio devices, emits radio frequency electromagnetic energy. The level of energy emitted by the CN200 is much less than the electromagnetic energy emitted by other wireless devices, such as mobile phones.

Because the CN200 operates within the guidelines found in radio frequency safety standards and recommendations, Colubris Networks believes that the CN200 is safe for use by consumers. These standards and recommendations reflect the consensus of the scientific community and result from deliberations of panels and committees of scientists who continually review and interpret the extensive research literature.

In some situations or environments, the use of the CN200 may be restricted by the proprietor of the building or responsible representatives of the organization. These situations may, for example, include:

* Using the CN200 on board airplanes or,

* In any other environment where the risk of interference to other devices or services is perceived or identified as harmful.

If you are uncertain of the policy that applies to the use of wireless devices in a specific organization or environment (e.g. airports), you are encouraged to ask for authorization to use the CN200 prior to turning it on.