

Cranberry Cardinal Series Wireless Access Point

CN-AP1001



Highlights

- ✓ **CN-AP1001 single band high performance 802.11n wireless access point for the SMB**
The Wireless Access Point supports 802.11n connectivity for applications demanding high bandwidth and quality of service, such as voice and video over Wi-Fi.

Overview

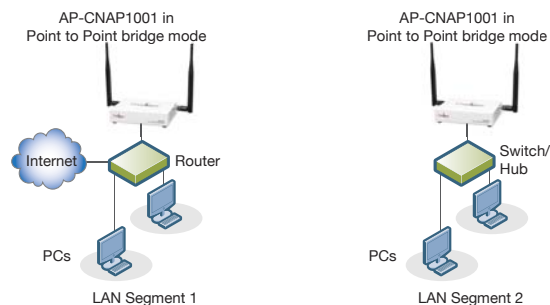
The CN-AP1001 Single Band 802.11n Wireless Access Point is the basic building block of a wireless LAN infrastructure. It provides connectivity between Ethernet wired networks and radio-equipped wireless notebook systems, desktop systems, print servers, and other devices.

The CN-AP1001 provides wireless connectivity to multiple wireless network devices within a fixed range or area of coverage.

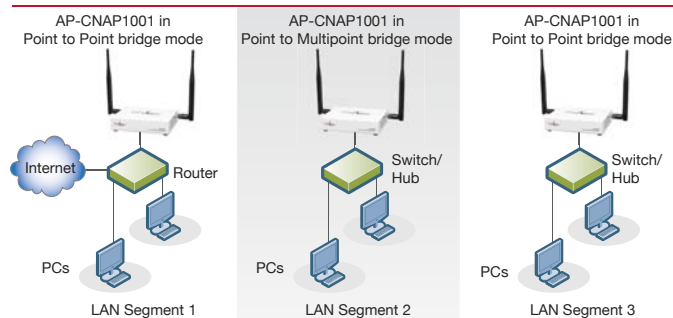
The CN-AP1001 Single Band 802.11n Wireless Access Point acts as a bridge between the wired LAN and wireless clients. Connecting multiple CN-AP1001 Wireless Access Points via a wired Ethernet backbone can further lengthen the wireless network coverage. As a mobile computing device moves out of the range of one access point, it moves into the range of another. As a result, wireless clients can freely roam from one Access Point to another and still maintain seamless connection to the network.

The CN-AP1001 is extremely simple to set up and can be managed via an intuitive Web-based GUI, CLI, or SNMP. The access point supports IEEE 802.3af Power-over-Ethernet (PoE) and external DC power for flexible and placement options.

Point-to-Point



Point-to-Multipoint



Key Features and Standards

2.4 GHz Band Operating Frequency	<ul style="list-style-type: none">• The Wireless Access Point operates in the 2.4 GHz frequency band.
Multiple Operating Modes:	
Wireless Access Point	<ul style="list-style-type: none">• Operates as a standard 802.11b/g/n access point.
Point-to-Point Bridge	<ul style="list-style-type: none">• In this mode, the CN-AP1001 only communicates with another bridge-mode wireless access point (with or without clients). Network authentication should be used to protect this communication.
Point-to-Multi-Point Bridge	<ul style="list-style-type: none">• Select this mode only if the CN-AP1001 is the “Master” for a group of bridge-mode wireless access points. The other bridge-mode wireless access points send all traffic to the “Master”, and do not communicate directly with each other. Network Authentication should be used to protect this traffic.
Standards Compliance	<ul style="list-style-type: none">• Access Point complies with the IEEE 802.11b/g/n standards for Wireless LANs.
Full WPA and WPA2 Support	<ul style="list-style-type: none">• WPA and WPA2 enterprise-class strong security with RADIUS and certificate authentication as well as dynamic encryption key generation. WPA-PSK and WPA2-PSK pre shared key authentication without the overhead of RADIUS servers but with all of the strong security of WPA.
Upgradeable Firmware	<ul style="list-style-type: none">• Firmware is stored in a flash memory and can be upgraded easily, using only your Web browser/CLI/SNMP.
Rogue AP Detection	<ul style="list-style-type: none">• The Rogue AP detection feature shows a list of unknown APs to the administrator.
Access Control	<ul style="list-style-type: none">• The Access Control MAC address filtering feature can ensure that only trusted wireless stations can use the CN-AP1001 to gain access to LAN network.
Hidden Mode	<ul style="list-style-type: none">• The SSID is not broadcast, assuring only clients configured with the correct SSID can connect.
Secure Telnet Command Line Interface	<ul style="list-style-type: none">• The secure Telnet command line interface enables easy scripting of configuration of multiple CN-AP1001s across an extensive network via the Ethernet interface.
Configuration Backup	<ul style="list-style-type: none">• Configuration settings can be backed up to a file and restored.
Autosensing Ethernet Connection	<ul style="list-style-type: none">• Connects to 10/100 Mbps IEEE 802.3 Ethernet networks.
LED Indicators	<ul style="list-style-type: none">• Power/Test, LAN speed, LAN activity, and wireless activity are easily identified.
Wireless Multimedia (WMM) Support	<ul style="list-style-type: none">• Supports WMM QoS (Wireless Multimedia prioritization)• Supports WMM Power Save
Multiple BSSIDs	<ul style="list-style-type: none">• Supports 8 Multiple BSSID. Each BSSID is mapped to a VLAN. When a Access Point is connected to a wired network and a set of wireless stations, it is called a Basic Service Set (BSS). The Basic Service Set Identifier (BSSID) is a unique identifier attached to the header of packets sent over a WLAN that differentiates one WLAN from another when a mobile device tries to connect to the network.
DHCL Server and Client Support	<ul style="list-style-type: none">• DHCP provides a dynamic IP address to PCs and other devices upon request. The CN-AP1001 can act as a client and obtain information from DHCP server; it can also act as a DHCP server and provide network information for wireless clients.
SNMP Support	<ul style="list-style-type: none">• Support for Simple Network Management Protocol (SNMP) Management Information Base (MIB) management. Supports MIB I, MIB II, 802.11 MIB and Proprietary Configuration MIB.
802.1Q VLAN (Virtual LAN) Support	<ul style="list-style-type: none">• A network of computers that behave as if they are connected to the same network even though they actually may be physically located on different segments of a LAN.• VLANs are configured through software rather than hardware, which makes them extremely flexible. VLANs are very useful for user/host management, bandwidth allocation and resource optimization.

Technical Specifications

SOFTWARE	
AP Modes	<ul style="list-style-type: none"> • Access Point mode • Point-to-point mode • Point -to-Multipoint mode
Wireless Security	<ul style="list-style-type: none"> • WEP • WPA • WPA2 • IEEE 802.1x RADIUS Authentication • EAP TLS • TTLS • PEAP • SSH • MAC Access Control • Rogue AP Detections
VLAN	<ul style="list-style-type: none"> • 802.1Q VLAN (Virtual LAN) Support
QoS	<ul style="list-style-type: none"> • WMM based QoS supported
Bridging	<ul style="list-style-type: none"> • 802.11D and Spanning Tree
System Software Upgrade	<ul style="list-style-type: none"> • TFTP upgrade • FTP upgrade • HTTP upgrade
IP Address Management	<ul style="list-style-type: none"> • Static Client • DHCP Client • DHCP server • DNS resolution
SNMP	<ul style="list-style-type: none"> • SNMP v1 and v2c • SNMPv3 users • SNMPv3 groups • SNMPv3 trap targets • SNMPv3 trap filters • SNMP agent
MIB support	<ul style="list-style-type: none"> • 802.11b/g MIB • 802.11n MIB • Enterprise MIB • Ethernet MIB • Bridge MIB
Network Management	<ul style="list-style-type: none"> • GUI, Telnet, SSH, Syslog, CLI and SNMP
Logging	<ul style="list-style-type: none"> • Event Logging • Remote Syslog • Console display and clear • Web display and clear
System Clock	<ul style="list-style-type: none"> • Manual date and time setting • Time zone • Daylight saving • NTP support
System Information	<ul style="list-style-type: none"> • System configuration • Wireless configuration • Wireless client status

HARDWARE	
Ethernet	<ul style="list-style-type: none"> • Support for 10/100 Ethernet MACs (RJ45)
Console Access	<ul style="list-style-type: none"> • RS232C based console access
Frequency Band	<ul style="list-style-type: none"> • 2.4 GHz
Modulation Technology	<ul style="list-style-type: none"> • OFDM with BPSK, QPSK, 16 QAM, 64 QAM; DBPSK, DQPSK, CCK
Hardware Encryption	<ul style="list-style-type: none"> • 64-bits, 128- and 152-bits WEP, AES, TKIP data encryption
Memory	<ul style="list-style-type: none"> • FLASH memory interfaces
Supported Data Rates	<p>IEEE 802.11g</p> <ul style="list-style-type: none"> • 1, 2, 5.5, 6, 9, 11, 12, 18, 24, 36, 38, 54, & 108 Mbps (Auto-rate capable) <p>IEEE 802.11ng</p> <p>Data Rates for Channel Width=20MHz and Guard Interval=short (400ms)</p> <ul style="list-style-type: none"> • Best = 7.2, 14.4, 21.7, 28.9, 43.3, 57.8, 65, 72.2, 14.44, 28.88, 43.33, 57.77, 86.66, 115.56, 130, & 144.44 Mbps <p>Data Rates for Channel Width=20MHz and Guard Interval=long (800ms)</p> <ul style="list-style-type: none"> • Best = 6.5, 13, 19.5, 26, 39, 52, 58.5, 65, 13, 26, 39, 52, 78, 104, 117, & 130 Mbps <p>Data Rates for Channel Width=40MHz and Guard Interval=short</p> <ul style="list-style-type: none"> • Best = 15, 30, 45, 60, 90, 120, 135, 150, 30, 60, 90, 120, 180, 240, 270, & 300 Mbps <p>Data Rates for Channel Width=40MHz and Guard Interval=long</p> <ul style="list-style-type: none"> • Best = 13.5, 27, 40.5, 54, 81, 121.5, 135, 27, 54, 81, 162, 216, 243, & 270 Mbps
Power Supply	<ul style="list-style-type: none"> • PoE (802.3af switch) • 12VDC, 1A adaptor

CERTIFICATION/STANDARDS	
FCC ID	<ul style="list-style-type: none"> • XZB-MAXR7102
Regulatory Certification	<ul style="list-style-type: none"> • uL/CuL
IEEE	<ul style="list-style-type: none"> • 802.11b/bg/ng

ENVIRONMENTAL	
Temperature	<ul style="list-style-type: none"> • Operating temperature: 0 to 50° C
Humidity	<ul style="list-style-type: none"> • Operating humidity: 5-95%, non-condensing

PHYSICAL	
Dimensions (LxWxH)	<ul style="list-style-type: none"> • 140 x 100 x 29 mm
Weight	<ul style="list-style-type: none"> • 0.43 kg (0.94lb)

Ordering Information

Part No.	Description
CN-AP1001	802.11n Wireless Access Point



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www.CranberryNetworks.com