

Secure Wireless Networking



For  
Small  
Business



In today's connected world, people expect seamless connectivity to their networks and the internet. That's why Cisco Small Business Wireless Access Points offer expanded range and coverage areas that make them a fast, transparent extension of your wired network.

With Cisco Wireless Access Points, employees can securely access network resources from places that were previously out of range. In addition, standards and encryption protocols keep Cisco Wireless Access Points just as secure as a wired network so critical business data is guaranteed to stay safe. Couple that with easy to use web-based configuration tools, and you have a wireless extension to your network that you can set-up and install, without the need for an IT staff. And as your business grows, they're even easier to manage. Simply put, Cisco wireless access points are an important piece of the networking foundation your business needs to keep pace in the modern wireless marketplace.

Cisco Small Business Wireless Access Points offer a range of features in selected models, including:

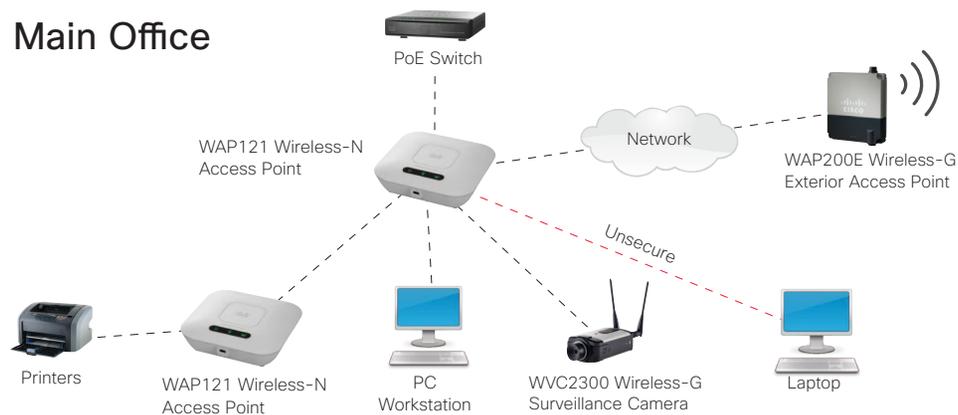
- Connection for both wired and wireless devices such as phones, printers and fax machines
- Wireless-N (up to 300 Mbps) connectivity
- Inside or outside installation options
- Increased coverage area with RangeBooster and MIMO technology
- Advanced clustering intelligence
- Detection of unauthorized, unsecure access
- Elimination of need to install external power supplies with PoE.
- Easy installation and configuration through a simple, browser-based interface
- Elegant, compact design with internal antennas and versatile mounting kit enables installation on a ceiling, wall, or desktop.
- Intelligent QoS prioritizes network traffic to help keep critical network applications running at top performance.
- Power-saving sleep mode and port control features help maximize energy efficiency.
- Highly secure guest access enables safe wireless connectivity for visitors.
- Support for IPv6 lets you deploy future networking applications and operating systems without costly upgrades



## What are Wireless Access Points?

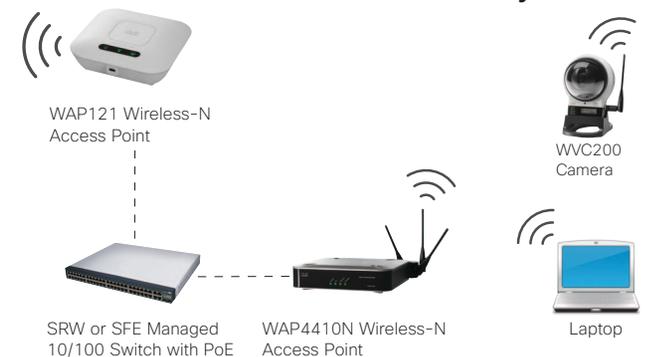
As a small business owner, you know that productive employees and cost-effective operations are the key to your business' success. Cisco Wireless Access Points (WAPs) allow your employees to efficiently and conveniently connect to applications and customers wherever they can work most effectively on site. At the same time, they provide secure access for partners and guests at your business location. And since they're designed to install easily and work reliably behind the scenes—you don't have to take on the costs of an IT staff to facilitate their use.

### Main Office



Up to 4 km

### Nearby Office



For small businesses who have wireless network technology needs, the **Cisco Small Business Portfolio** of affordably priced, reliable products – that just work. Purpose-built for small businesses, they're easy to install and use, and backed by Cisco networking expertise to deliver essential, dependable connectivity for your business needs.

## Cisco Small Business Series:



**WAP121**  
Wireless-N  
connectivity IEEE  
802.11n compliant

**Key Features:**

- 2.4GHz Wireless-N AP
- Multiple BSSID (4)
- Fast Ethernet LAN w/PoE
- IPv6 ready; QoS Support
- Browser based configuration via Device Manager and Web-based Setup Wizard
- Robust security capabilities such as WPA2 and 802.1x Rogue AP detection
- Wireless Distribution System (WDS)—Bridging and repeater capabilities for extended reach and deployment scenarios



**WAP131**  
Wireless-N  
connectivity IEEE  
802.11n compliant

**Key Features:**

- Selectable-band Wireless-N AP (2.4GHz or 5GHz)
- Multiple MSSID (8)
- Gigabit LAN w/PoE
- IPv6 ready; QoS Support
- Browser based configuration via Device Manager and Web-based Setup Wizard
- Captive Portal for Secure Guest Access
- Robust security capabilities such as WPA2 and 802.1x Rogue AP detection
- Wireless Distribution System (WDS)—Bridging and repeater capabilities for extended reach and deployment scenarios



**WAP4410N**  
Wireless-N  
connectivity IEEE  
802.11n compliant

**Key Features:**

- Multiple BSSIDs (4)—Segment wireless network amongst workgroups & guests
- Wireless Distribution System (WDS)—Bridging and Repeater capabilities for extended reach and deployment scenarios.
- Robust security capabilities such as WPA2, an 802.1x supplicant, Rogue AP Detection



**WAP200**  
Affordably priced and high-performance

**Key Features:**

- Multiple BSSIDs
- Strong QoS—802.1p/q and WMM
- PoE or External Power
- WPA2, WPA-ENT, WPA-PSK
- SSID to VLAN mapping
- Removable antennas
- Advanced Wireless Features
- Roaming
- Load Balancing
- Auto-Channel Selection



**WAP200E**  
Expand wireless access outside

**Key Features:**

- PoE—PD power means AP can be powered from a PoE switch
- 1x2 MIMO—better coverage and range
- QoS (WMM, 802.1p), VLANs,
- WPA2, 802.1x
- Multiple BSSIDs; Roaming and Auto-Channel selection
- NEMA IP53 weatherproof housing



**WET200**  
Connect peripherals wirelessly

**Key Features:**

- PoE—PD power means Bridge can be powered from a PoE switch
- 1x2 MIMO—better coverage and range
- QoS (WMM, 802.1p), VLANs, 802.1x,
- WPA2 security
- Removable antennas



**WAP2000**  
Affordable and feature-rich

**Key Features:**

- Metal Enclosure
- Dual Images
- Multiple BSSIDs
- Strong QoS—802.1p/q and WMM
- PoE or External Power
- WPA2, WPA-ENT, WPA-PSK
- Advanced Wireless Features
- Roaming
- Auto-Channel Selection

## Cisco Small Business Series:

The **Cisco AP541N Wireless Access Point** is a 802.11n dual-band clustering access point built for small businesses. The clustering capability makes it easy to set up, configure, and manage a growing wireless network. You can deploy multiple access points and push a single configuration to all the devices within the cluster, managing your wireless network as a single system without worrying about interference between access points, and without having to configure each access point as a separate device.



**AP541N**

**Key Features:**

- 802.11n dual band-user selectable 2.4GHz or 5GHz
- Ease of configuration and administration with clustering technology (controller-less)
- Strong security, and QoS, features
- Seamlessly enables multiple AP devices on a network
- Easier to deploy, administer, and secure wireless network



“We are finding that we’re actually gaining momentum because our tenants have become our spokespersons, are doing our advertising for us. Without the Cisco technology we have in place here, I’m not sure we could succeed in our marketplace.”

–Rick Onorato, Owner, NorthPoint Executive Suites

NorthPoint Executive Suites hosts a diverse array of 70 businesses, including real estate brokers, advertising companies, and technology companies. They have one thing in common: they all need reliable, secure data communications. To give these customers the technology that they need, NorthPoint had to have a reliable, easy-to-manage solution that provided secure email and Internet connectivity and wireless services.

“We knew that we needed reliability. We also needed security, and a scalable solution could handle our growth and our expansion needs.” – Rick Onorato, owner of NorthPoint Executive Suites.

To support a dynamic environment with dozens of businesses, NorthPoint wanted a solution based on a standard model that could be easily duplicated when clients moved or their needs changed.

“We had a replicable solution in mind, so that we could duplicate it very easily without a lot of additional thought or work,” says Onorato.

## The Cisco Small Business Promise

Cisco wireless access point technology is designed for small business—it’s purpose-built to be priced right. As your business grows and your flexibility needs change, Cisco products grow with your business, making it easy for you to upgrade and scale your network. Best of all, Cisco products are designed to work together so complex back-end work is unnecessary—as well as the need to hire an IT staff. And if something does need attention, you’ll have easy access to Local Cisco Partners who are there to help you. As the leader in networking and communications, Cisco helps small businesses around the world work better.

### Cisco Small Business Solutions.

Technology small companies trust to help their business succeed.

To learn more about how the Cisco Smart Business Communications System can help your business, visit [www.cisco.com/go/sbcs](http://www.cisco.com/go/sbcs) or contact your local Cisco partner.

## Wireless Access Points—Feature Comparison

Product	WAP121	WAP321	WAP200	WAP200E	WET200	WAP2000	WAP4410N	AP 541N
Wireless	802.11 b/g/n	802.11 b/g/n	802.11 b/g	802.11 b/g	802.11 b/g	802.11 b/g	802.11 b/g/n	802.11 a/b/g/n
Ethernet Speed	FE	Gigabit	FE	10/100	FE	FE	Gigabit	Gigabit
# of Ports	1	1	1	1	5	1	1	1
PoE	PoE or AC	PoE or AC	PoE or AC	PoE or AC	PoE or AC	PoE or AC	PoE or AC	PoE or AC
Clustering	○	○	○	○	○	○	○	●
Channel Management	○	○	○	○	○	○	○	●
Wireless Band	2.4GHz	2.4GHz or 5GHz	2.4GHz	2.4GHz	2.4GHz	2.4GHz	2.4GHz	2.4GHz or 5GHz
MIMO	2x2	2 of 3	1x2	1x2	1x2	1x2	3x3	2x3
MBSSIDs	4	8	4	4	○	4	4	16
802.1q VLAN Support	●	●	●	●	●	●	●	●
802.1x Client Authentication	●	●	●	●	●	●	●	●
WPA/2 PSK and ENT	●	●	●	●	●	●	●	●
802.1x AP Authentication	●	●	○	○	○	○	●	●
Secure Management (HTTPS)	●	●	●	●	●	●	●	●
WMM	●	●	●	●	●	●	●	●
802.1p	●	●	●	●	●	●	●	●
Removable Antennas	○	○	●	●	●	●	●	●
Rogue AP Detection	●	●	●	●	●	●	●	●
Multiple Modes	AP, WDS Bridge, WDS Repeater, Client	AP, WDS Bridge, WDS Repeater, Client	AP, Repeater, Bridge	AP, Repeater, Bridge	Client Only	AP, Repeater, Bridge	AP, Repeater, Bridge, Client	AP, Repeater, Bridge, Client
Roaming	802.11r (when supported by driver)	802.11r (when supported by driver)	●	●	○	●	●	●
IPv6 Host - Management	●	●	○	○	○	○	●	○
HTTP Redirect	●	●	○	○	○	○	●	●
WPS	Yes (soft pin)	Yes (soft pin)	○	○	○	○	●	○
Load Balancing	●	●	○	○	○	○	●	●
Spanning Tree	●	●	●	●	●	●	●	●
CLI Support	●	●	○	○	○	○	●	○
Metal Casing	○	○	○	○	○	●	○	●
Auto Channel Selection	●	●	●	●	○	●	●	●

● Included ○ - Not supported

For  
Small  
Business

