

## Advanced, high performance wireless access for the small business

With the growth of high bandwidth applications, such as storage and video in the work place, network performance is essential. Wireless technology is no longer lagging behind wired performance. The introduction of the Linksys Business Series WAP4410N Wireless-N Access Point answers the growing business need for access, speed, and security.

The Linksys Wireless-N Access Point lets you connect Wireless-N (802.11n), Wireless-G (802.11g) or Wireless-B (802.11b) devices to your wired network so you can add PCs to the network with no cabling hassle. Power over Ethernet (PoE) support makes the Access Point easy to install — you can mount the Access Point anywhere, even without ready access to a power plug. With appropriate PoE support at the other end, you only need to run one cable to the Access Point to deliver both data and power. Of course, you can also use the included AC adapter if your installation point has power available nearby.

Moreover, the integrated Quality of Service (QoS) features provide consistent voice and video quality on both the wired and wireless networks, enabling the deployment of business quality VoIP and video applications.

To protect your data and privacy, the Linksys Wireless-N Access Point supports the industrial-strength wireless security of Wi-Fi Protected Access™ (WPA), encoding all your wireless transmissions with powerful encryption. The MAC Address filter lets you decide exactly who has access to your wireless network, and advanced logging keeps you apprised. The Rogue AP detection capability notifies the administrator when an unauthorized Access Point is detected in the airspace. The WPS (WIFI Protected Setup) feature facilitates simple and secure deployment of security in the wireless network. Configuration is a snap with the web browser-based configuration utility.

The Linksys Wireless-N Access Point with Power Over Ethernet is the best way to add wireless access to your existing business network.

Complies with IEEE draft 802.11n standards while at the same time being backwards compatible with 802.11b and g devices

Standards-based PoE (IEEE 802.3af) or External DC power

Reliably support real-time applications like voice and video with wireless and wireless QoS capabilities like WMM and 802.1p

Securely deploy a wireless network with advanced security capabilities like WPA2 Enterprise, Rogue AP detection, 802.1x supplicant, VLANs, multiple BSSIDs, and WPS



**WAP4410N**

### PRODUCT DATA

### BUSINESS SERIES

# Wireless-N Access Point with Power Over Ethernet

## Features

- Draft 802.11n wireless networking delivers greater throughput and extended range, maximizing the number of wireless clients per access point for your small business
- Easy installation and configuration web interface
- Adjustable and removable dipole antennas with MIMO 3x3 diversity
- Gigabit Ethernet LAN interface
- Supports Power over Ethernet (PoE) and external DC power
- HTTP Redirect facilitates the display of a splash page on initial user access
- IPv6 host support for managing the AP over IPv6
- Multiple BSSID support allows creating of multiple secure wireless workgroups for users and guests
- SSID to VLAN mapping maintains application security and quality across wireless and wired
- WPS (Wifi protected Setup) allows for simple and secure deployment of the wireless network
- Logging via Syslog, Email, or local log
- WMM wireless QoS support

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# Wireless-N Access Point with Power Over Ethernet

## Specifications

Model	WAP4410N
Standards	Draft IEEE802.11n, IEEE802.11g, IEEE802.11b, IEEE802.3, IEEE802.3u, IEEE802.3af (Power Over Ethernet), 802.1x (Security Authentication), 802.11i Security WPA/WPA2, WMM
Ports	Ethernet, Power
Buttons	Reset
Cabling Type	UTP CAT 5e or higher
LEDs	Power, Ethernet, Wireless, PoE
Operating System	Linux

## Setup/Config

WebUI	Built-in Web UI for easy browser-based configuration (HTTP/HTTPS)
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## Management

SNMP Version	SNMP Version 1, 2c
Event Logging	Event Logging Email Logging Remote Syslog
Web F/W Upgrade	Firmware upgradeable through Web-browser
Diags: Flash, etc.	Diags: Flash, RAM, LAN, WLAN
DHCP	DHCP client
HTTP Redirect	Redirects initial user access to an external Web Server to display company logo or network usage policy
IPv6 Host	Support for management and control of Access Point over IPv6. Supports RFC2460 (IPv6 protocol) and RFC4294 (IPv6 Node Requirements)

## Network Capabilities

Multiple BSSID	Supports up to 4 BSSIDs, allowing the creating of multiple virtual Access Points
VLANs	Supports 802.1q —up to 4 VLANs
SSID to VLAN Mapping	Supports mapping of SSIDs to VLANs to securely separate workgroups across wireless and wired domains
Spanning Tree	Supports 802.1d Spanning Tree protocol to prevent loops when using WDS links as redundant links in a distribution system
Operating Modes	Access Point Mode, point-to-point Bridge Mode, point-to-multipoint Bridge Mode, Repeater Mode, Wireless Client Mode
Load Balancing	Allows the bandwidth control with user defined CPU usage ratio
Auto-channel Selection	On boot up, the AP selects the least congested channel
802.11d Regulatory Domain	Supports the AP to provide radio channel settings for client devices, facilitating easy client access as they move across regulatory domains

## Security

WEP/WPA/WPA2	WEP 64-Bit/128-Bit, WPA-PSK, WPA2-PSK, WPA-ENT, WPA2-ENT
Access Control	Wireless Connection Control: MAC-based
SSID Broadcast	SSID Broadcast Enable/Disable
Client Isolation	Supports wireless client isolation between and within SSIDs
802.1X	Wireless clients can be authenticated through IEEE 802.1X
802.1x Supplicant	Supports 802.1x Supplicant on the Ethernet port to allow the AP to authenticate itself to the network
Radius Server	Up to 2 Radius Servers can be configured for redundancy purposes
WPS	Supports WPS (Wifi Protected Setup), which is a WIFI Alliance specification for simple and secure setup of a wireless network
Rogue AP Detection	New Access Points detected which have not been categorized as known are logged as a Rogue AP, allowing the administrator to clamp down on unapproved devices in the network

## Quality of Service

QoS	4 Queues 802.1p VLAN Priority WMM Wireless Priority Mapping of 802.1p VLAN Priority to WMM Wireless Priority to maintain end-to-end QoS
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## Wireless

Spec/Modulation Channels	Radio and Modulation Type: 802.11b/DSSS, 11g/OFDM, 11n/OFDM Operating channels: 11 North America, 13 most of Europe (ETSI and Japan)
# of Internal Ant.	None
# of External Ant.	3 (Omni-Directional)
Transmit Power	Transmit Power @ Normal Temp Range for FCC: 11b - 16 dBm@1TX, 19 dBm@2TX, 20.5dbm@3TX; 11g - 13 dBm@1TX, 16 dBm@2TX, 19dbm@3TX, 11n - 20 dBm@MCSO~4/8~12, 18dBm@MCS5/13, 14dBm@MCS6/14, 12dBm@MCS7/15 Transmit Power at Normal Temp Range for ETSI: 11b/g/n: 18.5dBm
Antenna Gain in dBi	2
Receiver Sensitivity	11.n: 300 Mbps at -69dBm 11.g: 54 Mbps at -73dBm 11.b: 11 Mbps at -88dBm

## Environmental

Dimensions W x H x D	6.69" x 6.69" x 1.60" (170 x 170 x 40.7 mm)
Weight	0.86 lb (39 kg)
Power	12V 1A DC input, and IEEE 802.3af Compliant PoE Max Power Draw: 10.1 W
Certification	FCC, CE, IC
Operating Temp.	32 to 104°F (0 to 40°C)
Storage Temp.	-4 to 158°F (-20 to 70°C)
Operating Humidity	10 to 85%, Noncondensing
Storage Humidity	5 to 90%, Noncondensing

## Package Contents

- Wireless-N Access Point with PoE
- User Guide on CD-ROM
- Ethernet Network Cable
- Power Adapter
- Product Stands
- Registration Card

## Minimum Requirements

- 802.11b, 802.11g, 802.11n Wireless Adapter With TCP/IP Protocol Installed Per PC
- Switch/Router with Power Over Ethernet (PoE) Support Or PoE Injector when used with PoE
- Web-Based Configuration Java-Enabled Web Browser

## Warranty

- 3 Years

The maximum performance for wireless is derived from IEEE Standard 802.11 specifications. Actual performance can vary, including lower wireless network capacity, data throughput rate, range and coverage. Performance depends on many factors, conditions and variables, including distance from the access point, volume of network traffic, building materials and construction, operating system used, mix of wireless products used, interference and other adverse conditions.

Check the product package and contents for specific features supported. Specifications are subject to change without notice.



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80061210NC-RC

Model: **WAP4410N**

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