

# Alcatel-Lucent OmniAccess RAP5WN

## MULTI-PORT REMOTE ACCESS POINT

The OmniAccess RAP5WN is a powerful high-performance indoor Remote Access Point platform with multiple access and uplink technologies available for the multi-user small branch office or power users who work from a home office. Features such as wired and wireless connectivity, traffic forwarding based on policy, user centric security, and backup connectivity over cellular networks make this platform ideally suited for the always-on office.

This multi-function RAP provides wired LAN connectivity on four 10/100 ports that can be individually configured with a unique set of policies for secure user access and traffic forwarding. It features wireless LAN capabilities on multiple SSIDs, air monitoring, wireless intrusion detection and prevention over the 2.4GHz and 5 GHz RF spectrum (802.11a/b/g/n), and a USB port for connection to a 3G modem for cellular WAN link or wired link backup.

Working in conjunction with OmniAccess WLAN switches to deliver high-speed, secure network services to remote locations, the OmniAccess RAP5WN operates over any available WAN or LAN transport connection and can be installed by the end user with simple one-click provisioning.



FEATURES	BENEFITS
Zero-touch provisioning	Automatically establishes a secure connection to the central WLAN switch to download its configuration and security policies. Minimizes IT time and effort necessary to provision and operate the Remote Access Point.
Flexible WAN uplink	Operates over any existing broadband connection (such as DSL or cable). The USB port can be used to connect a 3G modem and the 3G connection used as the WAN uplink, resulting in an "on-campus" Wifi experience wherever 3G coverage is available.
IEEE 802.11n 3x3 MIMO (2 spatial streams) access point	High speed wireless up to 300 Mbps of throughput. Improved coverage compared to 802.11a/b/g technology. Backward compatibility with 802.11a/b/g Wi-Fi clients
Secure user-centric network services and applications	Enables the same user centric services as an Enterprise Campus access point- secure connectivity to a heterogeneous user base including employees, contractors, auditors and guests
Support of Alcatel-Lucent Communication and Collaboration applications	Deployed at the core of the remote worker's network. It has been extensively tested with Alcatel-Lucent voice handsets, communication and collaboration applications to ensure a superior end user experience

## Technical specifications

### Application

- High-performance, wired and 802.11n wireless, remote branch office & fixed teleworker applications, indoor use.

### Wired Operating Modes

- 10/100 Ethernet
- User authentication - 802.1X, captive portal, Mac authentication, or open access
- Policy based forwarding for local resource access

### Wireless Operating Modes

- Multi-service 802.11a/n or 802.11b/g/n WLAN
- 802.11a/b/g/n air monitor
- Hybrid combination of WLAN/AM
- Remote access point
- Configurable to support 802.11n HT 20/40 channels or mixed-mode deployment IEEE 802.11a/b/g/n

### Radios

- Single Radio - software configurable to support 2.4GHz or 5 GHz

### RF Management

- Automatic transmit power and channel management control with auto coverage hole correction via Adaptive Radio Management (ARM)

### Advanced Features

- Integrated Trusted Platform Module (TPM) for secure storage of credentials and keys
- SecureJack capable for secure tunneling of wired Ethernet traffic
- Policy based forwarding for tunneled, locally bridged, and Internet bound traffic

### Wireless Radio Specifications

- AP type: 3x3 Multiple-In, Multiple-Out (MIMO)
- Supported Frequency Bands (country-specific restrictions apply):
  - 2.400 - 2.4835 GHz
  - 5.150 - 5.250 GHz
  - 5.250 - 5.350 GHz
  - 5.470 - 5.725 GHz
  - 5.725 - 5.850 GHz
- Available Channels: WLAN switch-managed, dependent upon configured regulatory domain
- Supported Radio Technologies:
  - 802.11b: Direct-Sequence Spread-Spectrum (DSSS)
  - 802.11a/g/n: Orthogonal Frequency Division Multiplexing (OFDM)
  - 802.11n: 3x3 MIMO with 2 spatial streams
- Supported Modulation Types:
  - 802.11b: BPSK, QPSK, CCK
  - 802.11a/g/n: BPSK, QPSK, 16-QAM, 64-QAM
- Transmit Power: Configurable in increments of 0.5 dBm
- Maximum Ratio Combining (MRC) for improved receiver performance
- Association Rates (Mbps):
  - 802.11b: 1, 2, 5.5, 11
  - 802.11a/g: 6, 9, 12, 18, 24, 36, 48, 54
  - 802.11n: MCS0 - MCS15 (6.5Mbps - 300Mbps)
- 802.11n High-Throughput (HT) Support: HT 20/40
- 802.11n Packet Aggregation: A-MPDU, A-MSDU

### Antennas

- 3 x integral, omni-directional multi-band dipoles
- Maximum antenna gain:
  - 2.4 GHz / 2.9 dBi
  - 5 GHz / 4.9 dBi

### Interfaces

- Network
  - 1 x 10/100/1000Base-T Ethernet (RJ45), auto-sensing link speed and MDI/MDX
  - 4 x 10/100Base-T Ethernet (RJ45), auto-sensing link speed and MDI/MDX
- Power: 1 x DC power connector
- USB: 1 x USB 2.0 (type A connector)

### Power

- Adapter (included):
  - AC Input: 100-240V/0.5A
  - DC Output: 12V/1.25A
- Maximum Power Consumption: 12W

### Mounting

- Mounting
- Standard
  - Desk top (stand)
- Optional
  - Wall

### Mechanical

- Dimensions / Weight:
  - 6.9" x 9.5" x 1.4" (175 mm x 240 mm x 35 mm)
  - 1.0 pound (450 g)
- Dimensions / Weight (shipping):
  - 11" x 11.8" x 3.6" (280 mm x 300 mm x 90 mm)
  - 3.53 pounds (1600 g)

### Environmental

- Operating:
  - Temp: 0° to 40° C (32° to 104° F)
  - Humidity: 5 to 95% (RH), non-condensing
- Storage:
  - Temp: -40° to +70° C (-40° to +158° F)
  - Humidity: 5 to 95% (RH), non-condensing

### Regulatory

- FCC 15.247/15.407
- EU R&TTE Directive 1999/5/EC (EN 300 328, EN 301 893, EN 301 489)
- EU LV Directive 2006/95/EC
- IEC/EN 60950
- CE Marking
- cULus Marked
- CB Scheme Certified

## Ordering Information

PART NUMBER	DESCRIPTION
OAW-RAP5WN-US	OmniAccess RAP5WN Multi-port Remote Access Point with single radio 802.11'A/B/G/N', 3x3 MIMO operation, dualband omni-direction integrated antennas, 1 x 10/100/1000Base-T (RJ-45), 4 x 10/100Base-T (RJ-45), 1 x USB 2.0 port, 1 x North America 12V AC power adapter, 1x 6ft Ethernet cable and Installation Guide
OAW-RAP5WN	OmniAccess RAP5WN Multi-port Remote Access Point with single radio 802.11'A/B/G/N', 3x3 MIMO operation, dual band omni-direction integrated antennas, 1 x 10/100/1000Base-T (RJ-45), 4 x 10/100Base-T (RJ-45), 1 x USB 2.0 port, 1 x Universal 12V AC power adapter, 1x 6ft Ethernet cable and Installation Guide.
OAW-RAP5WN-MNT	OmniAccess RAP5WN Remote Access Point Wall Mount

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