



## AT-WA7400

### Dual-radio Enterprise-class Wireless LAN Access Point

#### AT-WA7400-xx

Dual-radio Enterprise-class Wireless Access Point

#### Compact, Feature-Rich Design

The AT-WA7400 dual-radio enterprise-class wireless access point includes radios that operate within both 2.4GHz and 5GHz frequency bands. It is fully compliant with IEEE 802.11a, b, g, and h standards and offers superior performance with the latest security features and a suite of advanced management tools.

#### Advanced Security

The AT-WA7400 is equipped with advanced encryption and authentication capabilities, including: WPA/WPA2, WEP with weak IV avoidance, TKIP, AES/CCMP encryption, MAC address filtering, access control via Radius with EAP and PEAP.

Secure your wireless network by segmenting public and private access with multiple BSSIDs, MAC addresses and VLAN Tagging. Rogue AP detection provides the ability to detect and locate unauthorized access points, thus preventing unauthorized entry to your wireless network.

#### Advanced WLAN Management Features

The AT-WA7400 supports a wide range of Wireless LAN (WLAN) management functions such as adjustable output power levels, wireless bridging (WDS), automated roaming, remote configuration and software upgrades.

AT-WA7400 offers an advanced load balancing feature, which allows you to balance the distribution of wireless client connections across multiple access points improving performance and bandwidth utilization.

Configuration and administration are automated across a network of AT-WA7400 access points, reducing the need for IT personnel to configure complex meshes.

These features help make your WLAN an integral part of your whole wireless network.

#### Key Features

- High-performance 54Mbps (IEEE 802.11a/h/g) data rate
- Security support via IEEE 802.11i (WPA2), WPA-PSK, TKIP, AES, IEEE 802.1x, and EAP/802.1
- Multiple BSSID and Virtual LAN (VLANs)
- Inhibit SSID broadcast and ignore SSID scan
- Media Access Control (MAC) for wireless Interface
- Load balancing
- IEEE 802.11e (WMM only)
- Wireless Distribution System (WDS) for wireless bridge and repeater modes support
- AP Clustering
- Rogue AP detection
- Transmit power control/limiting
- Secured AP management
- Power-over-Ethernet capable
- Wi-Fi and WPA certified
- Dynamic frequency selection and transmit power control for IEEE 802.11h compliance
- Healthcare environment ready (EN 60601)

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## Wireless Radio Characteristics

### IEEE 802.11g Wireless Radio

Frequency band:	2.4GHz, actual frequencies vary by country
Radio type:	IEEE 802.11b (11Mbps) and IEEE 802.11g (54Mbps)
Modulation:	IEEE 802.11g: Orthogonal Frequency Division Multiplexing (OFDM) <ul style="list-style-type: none"><li>• PSK @ 6 and 9Mbps</li><li>• QPSK @ 12 and 18Mbps</li><li>• 16-QAM @ 24 and 36Mbps</li><li>• 64-QAM @ 48 and 54Mbps</li><li>• IEEE 802.11b and IEEE 802.11g: Direct Sequence Spread Spectrum (DSSS)<ul style="list-style-type: none"><li>• DBPSK @ 1Mbps</li><li>• DQPSK @ 2Mbps</li><li>• CCK @ 5.5 and 11Mbps</li></ul></li></ul>
Radio power output:	12.5~18 dBm depending on frequencies
Radio data rate:	54, 48, 36, 24, 18, 12, 9, and 6Mbps OFDM, 11 and 5.5Mbps CCK and legacy 2 and 1Mbps data rates
Channels:	United States (FCC) 11 channels, Europe (ETSI) 13 channels, other countries per local regulations

## Maximum Transmit Powersettings

(IEEE 802.11g and IEEE 802.11a/h)

Full power	63 mW (18 dBm)
1/2 power	32 mW (15 dBm)
1/4 power	16 mW (12 dBm)
1/8 power	6 mW (8 dBm)
1/16 power	4 mW (6 dBm)

## Receive Sensitivity

(For IEEE 802.11g)

6Mbps:	-90 dBm
9Mbps:	-84 dBm
12Mbps:	-82 dBm
18Mbps:	-80 dBm
24Mbps:	-77 dBm
36Mbps:	-73 dBm
48Mbps:	-72 dBm
54Mbps:	-72 dBm

## Wireless Features

Dynamic channel planning  
Auto channel selection  
Transmit power control/limiting  
Wireless distribution system  
Load balancing  
Virtual wireless network via multiple BSSIDs

## Management

Management interfaces: Telnet and Web  
SNMP agent:  
SNMPv1 v2c supported  
Web-based management tool  
Single-view of clustered APs  
Single-click firmware upgrade  
Upload and download text-based configuration file via HTTP browser  
Firmware upgrade via HTTP browser

## Physical Characteristics

Dimensions: 176 x 101 x 30mm  
(W x D x H)  
Weight: 250g (.55 lbs)

## Security

64, 128, 152 bits WEP, static and dynamic mode  
Weak IV avoidance  
MAC access control for wireless interface  
EAP and IEEE 802.1x support  
Open/shared authentication  
WPA, WPA-PSK compliant  
WPA with TKIP/AES support  
Supports IEEE 802.11i (WPA2)  
Per-VLAN-based authentication policy  
Inhibit SSID broadcast and Ignore SSID scan

## Technical Specifications

### Power Characteristics

Input voltage: Power over Ethernet  
Voltage range: 36 to 57VDC  
Power: 9.6 Watts / Class 3  
Detection methods: IEEE 802.3af standard  
Optional DC power: 5V, 2.8Amp Switching DC power adapter

### Environmental Specifications

Operating temp. 0°C to +50°C  
Operating humidity: 10% to 90% relative humidity, non-condensing  
Storage temp. -20°C to +70°C  
Storage humidity: 10% to 95% relative humidity, non-condensing

## Network Protocol And Standards Compatibility

IEEE 802.3 CSMA/CD  
IEEE 802.3u 100TX  
IEEE 802.11g  
IEEE 802.11i  
IEEE 802.1x  
Draft IEEE 802.11f  
Draft IEEE 802.11e

## Standards Compliance

### Regulatory Approvals

EN 55022 / CISPR 22 Class B;  
FCC Part 15, Class B  
CE marked, compliant with RTT&E, EMC, LVD Directives; UL listed, UL 1950/C22.2 #950 IEC; TUV Licensed, EN 60950 & EN 60539-IP53; EN 60601-1-2:2001 updated EMC standard for medical devices

## Radio Approvals

IEEE 802.11b/g  
FCC Part 15B, 15B and 15E certified;  
EN 301 893;  
EN 301 489 transmitter EMC;  
Canada IC  
CE Mark emissions/immunity;  
TUV/GS license; EN 60950 CB.  
Others upon request

## Ordering Information

AT-WA7400-xx

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Where xx = 10 for North America  
30 for UK  
40 for Australian  
50 for European

Customers are responsible to comply with frequency regulations in their individual countries. Please look at the product manual for more details.

## Antenna Options

Contact your Allied Telesis sales representative for more information regarding antenna options.

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European Headquarters | Via Motta 24 | 6830 Chiasso | Switzerland | T: +41 91 69769.00 | F: +41 91 69769.11

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