



AT-TQ2403

IEEE 802.11a/b/g Dual-radio Enterprise Access Point

AT-TQ2403-xx

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Compact, Feature-Rich Design

The AT-TQ2403 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 n standards and offers superior performance with the latest security features and a suite of advanced management tools.

Advanced Security

The AT-TQ2403 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 unauthorized access points, thus preventing unauthorized entry to your wireless network.

Advanced WLAN Management Features

The AT-TQ2403 supports a wide range of Wireless LAN (WLAN) management functions such as adjustable output power levels, wireless bridging (WDS), remote configuration and software upgrades.

AT-TQ2403 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-TQ2403 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/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
- Media Access Control (MAC) for wireless Interface
- Load balancing
- IEEE 802.11e (WMM only)
- Wireless Distribution System (WDS)
- 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
- Internal radius server

AT-TQ2403 | IEEE 802.11a/b/g Dual-radio Enterprise Access Point

Wireless Radio Characteristics

IEEE 802.11a Wireless Radio

Frequency band: 5GHz, actual frequencies vary by country

Radio type: IEEE 802.11a (54Mbps)

Modulation: IEEE 802.11a: Orthogonal Frequency Division Multiplexing (OFDM)

- BPSK @ 6 and 9Mbps
- QPSK @ 12 and 18Mbps
- 16-QAM @ 24 and 36Mbps
- 64-QAM @ 48 and 54Mbps

Radio power output: 15~20 dBm depending on frequencies

Radio data rate: 54, 48, 36, 24, 18, 12, 9, and 6Mbps OFDM

Channels: FCC CH36-48, CH52-64, CH100-140, CH149-165
CE CH36-64, CH100-140

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)

- BPSK @ 6 and 9Mbps
- QPSK @ 12 and 18Mbps
- 16-QAM @ 24 and 36Mbps
- 64-QAM @ 48 and 54Mbps
- IEEE 802.11b and IEEE 802.11g: Direct Sequence Spread Spectrum (DSSS)
- DBPSK @ 1Mbps
- DQPSK @ 2Mbps
- CCK @ 5.5 and 11Mbps

Radio power output: 15~17 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 Power settings

IEEE 802.11a

Full power	100 mW (20 dBm)
1/2 power	50 mW (17 dBm)
1/4 power	25 mW (14 dBm)
1/8 power	12 mW (11 dBm)
1/16 power	6 mW (8 dBm)

IEEE 802.11g

Full power	50 mW (17 dBm)
1/2 power	25 mW (14 dBm)
1/4 power	12 mW (11 dBm)
1/8 power	6 mW (8 dBm)
1/16 power	3 mW (5 dBm)

Receive Sensitivity

IEEE 802.11a

6Mbps	-89 dBm
36Mbps	-77 dBm
48Mbps	-74 dBm
54Mbps	-71 dBm

IEEE 802.11g

6Mbps	-89 dBm
36Mbps	-77 dBm
48Mbps	-74 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: 17.85cm x 10.8cm x 3cm
(W x D x H)

Weight: 250g (.55 lbs)

Security

MAC access control for wireless interface
Per-VLAN-based authentication policy
Inhibit SSID broadcast
64, 128, 152 bits WEP, static and dynamic mode, weak IV avoidance, open/shared authentication
WPA-EAP (TLS, PEAP, TTLS, EAP-SIM), WPA-PSK (TKIP), WPA-PSK (AES)
WPA2-EAP (TLS, PEAP, TTLS, EAP-SIM), WPA2-PSK (TKIP), WPA2-PSK (AES)

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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, 2.8A 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 802.11a/b/g
IEEE 802.11i
IEEE 802.1x
Draft IEEE 802.11f
IEEE 802.11e (WMM only)

Standards Compliance

Safety and Electromagnetic Emissions Certifications

EMI/RFI and Immunity:

- FCC marked, compliant with:
FCC Part 15 Class B
FCC Part 15B, 15C, and 15E certified
- CE marked, compliant with:
EN 301 893
EN 300 328
EN301 489 Transmitter EMC
- Canada IC
- C-Tick marked, compliant with:
AS/NZS/CISPR 22 Class B

Electrical Safety:

- cUL marked, compliant with:
UL60950-1
CSA C22.2 No.60950-1-03 CULUS)
- CE marked, compliant with:
LVD directives
- TUV T-mark marked, compliant with:
EN60950-1

Ordering Information

AT-TQ2403-xx
IEEE 802.11a/b/g dual-radio enterprise access point

Where xx = 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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