TQ5403
Hybrid 3-radio 802.11ac Wave 2 Wireless Access Point

The Allied Telesis Enterprise-class TQ5403 Hybrid 3-radio Wireless Access Point features IEEE 802.11ac Wave 2 technology with two spatial streams to deliver a raw capacity of 2.133 Gigabits.

Overview
The innovative Channel Blanket hybrid mode of the TQ5403 enables optimized wireless networking for all environments. Simultaneous multi-channel and single-channel Wi-Fi connectivity from the same access point, allows network administrators to combine maximum performance and seamless roaming for the best possible user experience.

The TQ5403 has a single 2.4GHz radio and dual 5GHz IEEE 802.11ac radios, and supports Multi-User Multiple Input and Multiple Output (MU-MIMO), allowing multiple clients to send and receive data at the same time, substantially increasing throughput. A comprehensive feature-set provides a superior solution for customers from SMBs to large Enterprises.

Smaller businesses can operate the TQ5403 in standalone mode, using its intuitive web-based interface. For medium and larger installations, Autonomous Wave Control (AWC) provides centralized management, and regularly analyses the wireless network, automatically optimizing AP settings to reduce interference and minimize coverage gaps—all with no user intervention. AWC-SC (Smart Connect) enables simplified deployment, and a resilient wireless solution, using wireless uplink connectivity. AWC wireless management is available on our Vista Manager EX network management platform, and from Vista Manager mini running on a number of switch and firewall products.

Flexible deployment options include desktop use, and wall or ceiling mounting. Power can be supplied by Power over Ethernet, or by an optional AC power adapter.

Key Features

**Channel Blanket Hybrid Operation**
- The TQ5403 supports operation in multi-channel, single-channel (Channel Blanket) and hybrid (multi-channel and Channel Blanket) modes, for the most flexible wireless solution available.
- Multi-channel operation provides maximum throughput for high-bandwidth clients, while Channel Blanket operation supports seamless roaming for dynamic environments like warehouses and hospitals, as all APs appear as a single virtual AP.
- Hybrid mode combines the best of both architectures, enabling an innovative wireless solution that maximizes performance for a superior user experience.

**AWC Smart Connect (AWC-SC)**
- AWC-SC enables plug-and-play wireless network growth, as new APs only need a power connection, and will then automatically create resilient wireless uplink connections to other APs.
- AWC-SC supports dynamic environments with multi-path uplinks, and provides an ideal solution for one-time deployments like conferences.

**IEEE 802.11ac Wave 2**
- IEEE 802.11ac Wave 2 wireless connectivity delivers Gigabit performance and throughput. In crowded wireless environments, efficient bandwidth distribution is important. Wave 2 uses Multi-user MIMO technology to simultaneously communicate with multiple clients at once, reducing contention and improving capacity and throughput by up to three times.
- Multi-user MIMO uses beamforming, where the AP focuses wireless signal towards connected devices, rather than simply radiating the signal evenly. This improves range and speed for each user, and reduces interference.

**Tri-radio, with Band Steering**
- The TQ5403 contains three IEEE 802.11 2ss radios to enable concurrent Wi-Fi communications: one at 2.4GHz band, and two at 5GHz band. This alleviates network congestion and isolates any legacy client devices affecting performance.
- Band steering prompts newly connecting devices to use a band with little current congestion to distribute wireless traffic, provide maximum throughput, and the best user experience.

**IEEE 802.11e Wireless Multimedia (WMM)**
- Quality of Service (QoS) on the wireless network optimizes the performance of voice, video, and data applications, as each has different latency, bandwidth and performance requirements. QoS traffic prioritization ensures the timely delivery of these services.

**IEEE 802.11i (security)**
- This feature set facilitates strong encryption, authentication and key management strategies, guaranteeing data and system security. In addition to Counter Mode with Cipher Block Chaining Message Authentication Code Protocol (CCMP), IEEE 802.1X key distribution via RADIUS controls access to the network.

**Virtual APs with Multiple SSIDs**
- The TQ5403 supports Virtual AP (VAP) functionality, with the assignment of different SSIDs and security policies for each VAP on the physical device.
- VAPs can be mapped to VLANs for logical network separation and improved throughput. Enable communication by application, function or users.

**Link Aggregation**
- The TQ5403 features two 10/100/1000T Ethernet ports. These can be combined into a single virtual connection using static link aggregation, to double the bandwidth from the AP to the wired network.

**Captive Portal**
- Manage user access to the Wi-Fi network with captive portal. New users are taken to a login page to authenticate before gaining access to any online resources and applications.
- Login options include direct online access, external authentication, or redirection to third party services—for example social media sites like Facebook or Twitter.

**Airtime Fairness**
- Airtime Fairness equally assigns airtime to each connected client, to ensure fair and predictable sharing of bandwidth. This feature prevents any client from monopolizing the bandwidth when transferring a large amount of data, and ensures consistent performance for all users.

**Fast Roaming**
- Fast roaming 802.11n, 802.11ac, and 802.11r optimize discovering and selecting the best available AP in a Wi-Fi network. It establishes rapid connectivity for users to seamlessly move between APs, as the APs exchange security keys, so the client device does not need to re-authenticate on the RADIUS server as they roam.

**Passpoint® support**
- Wi-Fi Alliance certified Passpoint enables auto-detection and connection of client devices, removing the need for users to find and authenticate on wireless networks.
Specifications

Physical Specifications

<table>
<thead>
<tr>
<th>PRODUCT</th>
<th>WIDTH X DEPTH X HEIGHT</th>
<th>WEIGHT</th>
<th>10/100/1000T (RJ-45) COPPER PORTS</th>
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</thead>
<tbody>
<tr>
<td>TQ5403</td>
<td>215 x 215 x 48 mm (8.46 x 8.46 x 1.89 in)</td>
<td>700 g (24.69 oz)</td>
<td>2 (1 PoE-in port)</td>
</tr>
</tbody>
</table>

Power Characteristics

<table>
<thead>
<tr>
<th>PRODUCT</th>
<th>POWER SUPPLY</th>
<th>POWER CONSUMPTION AVERAGE</th>
<th>MAX HEAT DISSIPATION</th>
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<tbody>
<tr>
<td>TQ5403</td>
<td>100-240VAC</td>
<td>10W</td>
<td>67 BTU/h</td>
</tr>
<tr>
<td></td>
<td>POE</td>
<td>10W</td>
<td>19W</td>
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</table>

Wireless

- Multi-channel, single-channel, or hybrid operation
- Airtime fairness
- Automatic channel selection
- Automatic control of transmission power
- Band Steering
- Fast roaming
- RF load balancing
- Wireless Distribution System (WDS)
- Wi-Fi Multimedia (WMM) for traffic prioritization
- Deploy with no data cables using AWC-SC

Operational Modes

- Centrally managed in multi-channel mode by Vista Manager EX (up to 3,000 APs)
- Centrally managed in single-channel or hybrid mode (multi-channel and single-channel) by Vista Manager EX (up to 100 APs per Channel Blanket)
- Standalone

Management

- Graphical User Interface (HTTP/HTTPS)
- Simple Network Management Protocol (SNMPv1, v2c, v3)
- Firmware upgrade
- Backup/restore settings
- Syslog notification
- DHCP client
- NTP client

Security

- Authentication and accounting
  - IEEE 802.1X authentication and accounting
  - IEEE 802.1X RADIUS support
- Shared Key Authentication
- WPA (Enterprise, Personal)
- WPA2 (Enterprise, Personal)
- WPA3 (Enterprise, Personal)
- Captive Portal (External RADIUS, Click-Through) Passpoint®
- Encryption
  - WEP: 64/128 bit (IEEE 802.11a/b/g only)
  - WPA/WPA2: CCMP (AES), TKIP
  - WPA3: CCMP (AES/CNSA)
- MAC address filtering (Up to 2048 MAC address)
- SSID hiding/ignoring
- Client isolation
- Neighbor AP detection
- Kensington lock

ElectroMagnetic Compatibility

- AS/NZS 2772.2
- EN 301 489-1
- EN 301 489-17
- EN 55022
- EN 55032, Class B
- EN 60601-1-2:2015 (For Medical)
- EN 61000-3-2, Class A
- EN 61000-3-3
- EN 61000-4-2
- EN 61000-4-3
- EN 61000-4-4
- EN 61000-4-5
- EN 61000-4-6
- EN 61000-4-8
- EN 61000-4-11
- FCC 47 CFR Part 15, Subpart B
- FCC 47 CFR Part 15, Subpart C
- FCC 47 CFR Part 15, Subpart E
- FCC part 2

Environmental Specifications

- Operating temperature range: 0°C to 50°C (32°F to 122°F)
- AC adapter: 0°C to 45°C (32°F to 113°F)
- Storage temperature range: -25°C to 70°C (-13°F to 158°F)
- Operating relative humidity range: 90% non-condensing
- Storage relative humidity range: 95% non-condensing

Embedded Antennas

- Omni-directional 0m
- Frequency band: 2.4 GHz
- Max. peak gain: 3.95dBi
- Supports Channel Blanket

- Omni-directional 0m
- Frequency band: 5GHz (5.2-5.8GHz)
- Max. peak gain: 4.20dBi
- Supports Channel Blanket

Radio Characteristics

Supported frequencies:
- 2.400 – 2.4835 GHz
- 5.150 – 5.250 GHz
- 5.250 – 5.350 GHz
- 5.470 – 5.525 GHz
- 5.725 – 5.850 GHz

Modulation Technique
- 802.11a/n/g/nc/ac: OFDM
- 802.11b: DSSS, CCK, DQPSK, DBPSK
- 802.11ac: BPSK, QPSK, 16QAM, 64QAM, 256QAM
- 802.11a/n/g: BPSK, QPSK, 16QAM, 64QAM, 256QAM

Data Rate
- 802.11a/n/g: 54/48/36/24/18/12/9/6Mbps
- 802.11b: 11/5.5/2/1Mbps
- 802.11n: 6.5 – 400Mbps (MCS 0 - 15)
- 802.11ac: 6.5 – 3000Mbps (MCS 0 - 15)
- 802.11ac: 6.5 – 866.7Mbps (MCS 0 - 9, NSS 1 - 2)

Media Access
- CSMA/CA + Ack with RTS/CTS

Diversity
- Spatial diversity

1 AWC-SC (deployment with no data cables) supports up to 3 wireless hops. Each hop can have up to 4 APs
2 Supports 4 Channel Blankets total per TQ5403, 2 VAPs each at 2.4GHz and 5GHz (W52). Supports 500 clients maximum per Channel Blanket
3 Supports up to 250 clients per AP
4 Wi-Fi Alliance certified Passpoint
5 Supported frequencies: 5.150 – 5.250 GHz
6 Radiation Pattern of Antenna is in the Installation Guide
7 Using 256 Quadrature Amplitude Modulation
Standards

Ethernet
IEEE 802.1X-2008 Link Aggregation (static)
IEEE 802.3 100BASE-TX
IEEE 802.3ab 100BASE-T
IEEE 802.3x Flow Control
IEEE 802.3at Power over Ethernet+
IEEE 802.1Q VLAN Tagging

Wireless
IEEE 802.11a/b/g/n/ac (Wave 2) 2x2:2ss MU-MIMO
IEEE 802.11k Radio Resource Measurement of Wireless LANs
IEEE 802.11v Basic Service Set Transition Management Frames
IEEE 802.11r Fast Basic Service Set Transition
IEEE 802.11e WMM for Quality of Service
IEEE 802.11i WPA/WPA2/WPA3 802.1x for Security

Wireless Management Licenses
Wireless management of the TQ5403 is available from the Vista Manager EX network management platform, and from Vista Manager mini running on our SwitchBlade x908 GEN2, x950, x930, x550, x530 Series switches or AR-Series firewalls and routers.

<table>
<thead>
<tr>
<th>PLATFORM</th>
<th>LICENSE NAME</th>
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<tbody>
<tr>
<td>Vista Manager EX</td>
<td>AT-FL-VISTA-BASE-1/5YR</td>
<td>Vista Manager EX network monitoring and management software license</td>
</tr>
<tr>
<td>Vista Manager EX</td>
<td>AT-FL-VISTA-AWC10-1/5YR&lt;sup&gt;9&lt;/sup&gt;</td>
<td>Vista Manager AWC plug-in license for managing up to 10 access points</td>
</tr>
<tr>
<td>Vista Manager EX</td>
<td>AT-FL-VISTA-CB10-1/5YR&lt;sup&gt;9&lt;/sup&gt;</td>
<td>Vista Manager AWC-Channel Blanket license for managing up to 10 access points</td>
</tr>
<tr>
<td>Vista Manager EX</td>
<td>AT-FL-VISTA-SC10-1/5YR&lt;sup&gt;9&lt;/sup&gt;</td>
<td>Vista Manager AWC-Smart Connect license for managing up to 10 access points</td>
</tr>
<tr>
<td>SwitchBlade x908 GEN2</td>
<td>AT-FL-GN2-AWC40-1/5YR&lt;sup&gt;9&lt;/sup&gt;</td>
<td>Autonomous Wave Controller (AWC) license for SBx908 GEN2 (Up to 40 access points)</td>
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9 The AWC plug-in requires an AWC license, and a Vista Manager EX base license to operate on Vista Manager EX
10 Channel Blanket requires an AWC-CB license, an AWC license, and a Vista Manager EX base licenses to operate on Vista Manager EX
11 Smart Connect requires an AWC-SC license, an AWC license, and a Vista Manager EX base licenses to operate on Vista Manager EX
12 Five APs can be managed for free on a switch, firewall, or router. Additional APs can be managed by purchasing AWC licenses
13 Channel Blanket is not available as a free service. It requires an AWC-CB license, and an AWC license to operate on a switch, firewall, or router
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License table is continued on the next page
Wireless Management Licenses Continued

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<tr>
<td>AR4050S UTM Firewall</td>
<td>AT-FL-AR4-AWC20-1/5YR</td>
<td>Autonomous Wave Controller (AWC) license for AR4050S (up to 20 access points)</td>
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<tr>
<td>AR4050S UTM Firewall</td>
<td>AT-FL-AR4-CB5-1/5YR</td>
<td>AWC-Channel Blanket license for AR4050S (up to 5 access points)</td>
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<td>AR4050S UTM Firewall</td>
<td>AT-FL-AR4-SC5-1/5YR</td>
<td>AWC-Smart Connect license for AR4050S (up to 5 access points)</td>
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1) Five APs can be managed for free on a switch, firewall, or router. Additional APs can be managed by purchasing AWC licenses
2) Channel Blanket is not available as a free service. It requires an AWC-CB license, and an AWC license to operate on a switch, firewall, or router
3) Smart Connect is not available as a free service. It requires an AWC-SC license, and an AWC license to operate on a switch, firewall, or router

Ordering Information

AT-TQ5403-xx
Enterprise-Class 802.11ac Wave 2 Wireless Access Point with 3 radios and embedded antenna

Where xx =

01 Regulatory Domain: United States Reserved
02 Regulatory Domain: Taiwan
03 Regulatory Domain: Canada
[none] Regulatory Domain: Other countries

*Please check the Compliance section on page 2 to see which countries are certified to use this access point.

To order this access point for use in Japan, please see the Japanese datasheet.

Related Products

AT-MWS0091