AirTight W-68 Access Point

Dual band, dual concurrent radio 2x2:2 MIMO 802.11ac Wi-Fi with 24/7 wireless intrusion prevention (WIPS)

Designed for High Performance

The AirTight W-68 wall-plate access point is an enterprise grade MIMO 802.11ac access point with dual concurrent 5 GHz and 2.4 GHz band radios supporting 802.11a/n/ac, 802.11b/g/n, two spatial streams, and data rates of up to 866 Mbps and 300 Mbps, respectively.

The W-68 is ideal to meet the ever increasing needs of hotels and their guests. High speed Wi-Fi will provide your guests with Internet connectivity and access to on-site amenities. The sleek ergonomic design can be placed in any location flush with the wall and can be installed easily by "non-IT" staff.

The W-68 features four 1Gb switch ports to support a range of in-room IP devices, reducing costs in additional cabling, switch, and power sourcing equipment. The phone pass-through supports standard digital telephones that require native access to an in-house PBX system. Additionally, one of the 4 wired ports can power devices such as IP telephones.

The W-68 operates on AC power or can be powered using the prevalent 802.3af PoE standard without any loss of 802.11ac functionality or requiring expensive infrastructure upgrades to PoE+ (802.3at).

Software Configurable Operation

Customers can choose from multiple modes of operation:

- **Dual AP:** 5 GHz 802.11ac access on one radio and in 2.4 GHz 802.11n on the other radio
- **Dual AP with Background WIPS:** 5 GHz 802.11ac access on one radio and in 2.4 GHz 802.11n on the other radio with background wireless monitoring in both bands
- **Dedicated Overlay WIPS:** Dedicated 24/7 wireless threat protection for both 5 GHz and 2.4 GHz bands to protect any wired or wireless network

KEY FEATURES

- Wall-plate access point with five 1 Gb ports and two pass-through ports
- Provides punch-down block for Ethernet and Pass-through input ports
- Up to 866 Mbps for Radio 1 and 300 Mbps for Radio 2
- Both radios can operate at full capacity using 802.3af PoE or on AC power
- 365/24/7 dual band protection from wireless threats as a WIPS sensor or background WIPS scanning in AP mode
- Multiple SSIDs and VLANs per AP
- Integrated firewall, traffic shaping, QoS controls, and spectrum load balancing per SSID
- Multiple guest access options with captive portal and walled garden support
- Wi-Fi analytics and performance monitoring
- Support for wireless mesh networking

Stay Secure with Industry's Top Rated WIPS

Consistently rated at the top, AirTight is the only WIPS vendor to ever receive Gartner's highest "Strong Positive" rating for Wireless LAN IPS. The AirTight WIPS is powered by several patented techniques to accurately and automatically detect, block and locate wireless threats before they compromise your network.

AirTight W-68 can provide 24/7 protection against wireless threats while concurrently enabling high speed 802.11n access.

- Patented Marker Packet™ techniques for accurate Rogue AP detection
- 24/7 monitoring of up to 100 VLANs
- Most comprehensive protection from all types of wireless threats, including Rogue APs, Soft APs, Honeypots, Wi-Fi DoS, Ad-hoc networks, Client misassociations, and Mobile hotspots
- Reliable over-the-air or on-wire prevention
- Accurate location tracking
- Equally effective with or without managed LAN switch infrastructure

Value Added Services Power Your Business

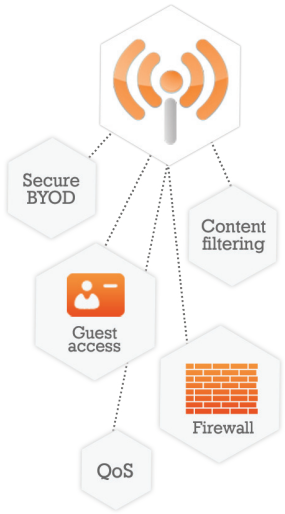
More than just a basic Wi-Fi access platform, AirTight offers an innovative suite of value added services for easy provisioning and secure operation plus location-based services and customer engagement tools. AirTight's Mojo Studio includes a WLAN and WIPS management console, a guest manager app with built-in Wi-Fi analytics, 'preflighted' access point templates to simplify configuration, and BrandBuilder™ a splash page designer for creating customized branded portals, creating a unique guest experience for each property. Integrate social media channels including G+, Facebook, twitter, linkedIn, and Wechat with AirTight's customizable guest Wi-Fi portals to engage with guests and turn them into loyal promoters, encourage them to opt into marketing programs and reach out to them via geo-marketing campaigns.

Controller-less "Intelligent Edge" Architecture

AirTight's next generation controller-less architecture eliminates the cost, complexity, and inefficiency of traditional controllerbased WLAN solutions. Instead of making APs tunnel data traffic to a central controller and rely on it for availability of many Wi-Fi and WIPS functionalities, AirTight APs switch data locally and are capable of operating independently in a "stand-alone" mode, even if the connectivity to the management server is lost, e.g., if the WAN link to the Cloud goes down.

Purpose-built and plug-and-play AirTight APs provide WLAN intelligence at the edge of the network.

- Multiple SSIDs and VLANs per AP
- Built-in firewall, content filtering, traffic shaping, and QoS controls per SSID
- Guest access with customizable captive portal and walled garden
- Wi-Fi analytics and performance monitoring
- BYOD policy enforcement with automatic device fingerprinting and onboarding
- Support for wireless mesh network



Plug-n-Play Deployment; Centrally Managed

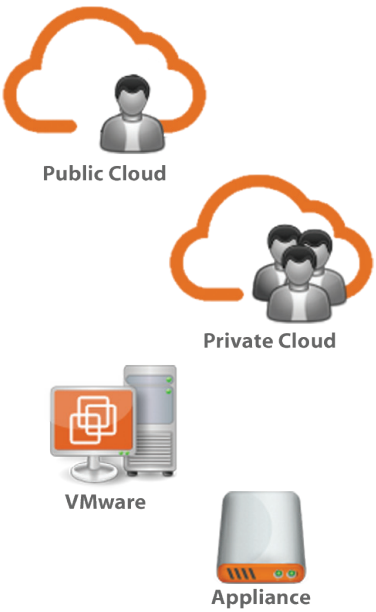
AirTight APs automatically connect and synchronize with the AirTight management server whether hosted onsite or in the Cloud, enabling true plug-and-play deployment at remote locations in minutes without the need for local configuration or IT support. Whether using 10 APs or 10,000 APs, the entire deployment can be managed from a single HTML5 console.

AirTight's unique hierarchical, location-based architecture lets administrators easily organize, manage and secure a complex topology of network devices the way they organize their business—based on various logical contexts such as geography, ownership (corporate vs. franchisee), multiple brands, and others.

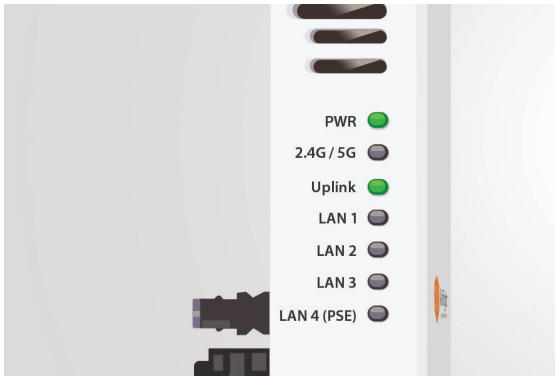
Capex or Opex; Onsite or Cloud

AirTight's robust cloud architecture is infinitely scalable and on-premise deployment options include virtual servers and appliances that easily integrate with your existing network.

AirTight provides different pricing models including full OPEX, full CAPEX or a combination to meet your budget. All features are included without any licensing costs.

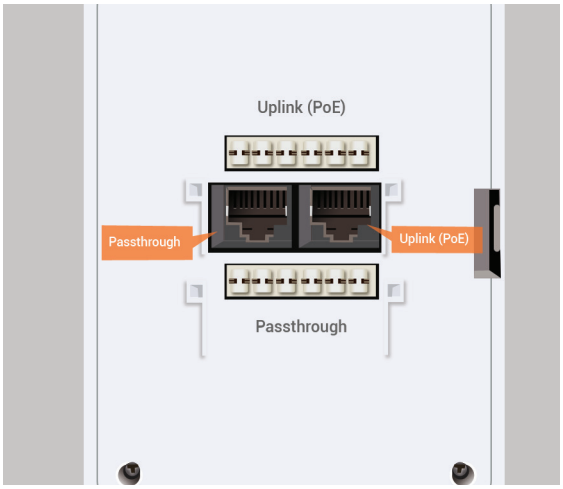


Physical Specifications



Side View

Property	Specification
Physical Dimensions	150 mm × 30 mm × 86 mm
Weight	0.53 lb. (0.24 kg)
Operating Temperature	0°C to 45°C (32°F to 113°F)
Storage Temperature	-40°C to 70°C (-40°F to 158°F)
Humidity	5% to 95% non-condensing

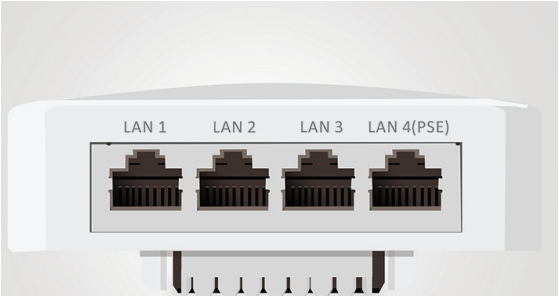


Rear View

Port	Description	Connector Type	Speed/Protocol
Pass-through	Wired port facilitating extension of the wired network after the AP is mounted on the wall. Another device can be plugged in to the pass-through port on the right side of the W-68 device. No policies can be applied on the pass-through port traffic.	RJ45 / Punch-down	10/100/1000 Mbps Gigabit Ethernet
Uplink (PoE)	Gigabit Ethernet port used to connect to the wired LAN and communicate with the AirTight Cloud or Server. This port can also be used to power the device using the 802.3af Power over Ethernet (PoE) standard.	RJ45 / Punch-down	10/100/1000 Mbps Gigabit Ethernet 802.3af Class 0 PoE PoE input voltage: 48V

Side View

Port	Description	Connector Type	Speed/Protocol
Pass-through	Wired port facilitating extension of the wired network after the AP is mounted on the wall. Another device can be plugged in to this pass-through port. No policies can be applied on the pass-through port traffic.	RJ45	10/100/1000 Mbps Gigabit Ethernet
Reset	Reset to factory default settings	Pin-hole push-button	Hold down and power cycle the Sensor to reset
Power	48V DC input jack that can be used to power the device.	3.5 mm barrel	N/A



Bottom View

Port	Description	Connector Type	Speed/Protocol
LAN 1 LAN 2 LAN 3 LAN 4	Gigabit Ethernet port that can be used for wired extension for an SSID	RJ45	10/100/1000 Mbps Gigabit Ethernet

Wi-Fi Specifications

Frequency, Modulation, and Data Rates

IEEE 802.11b/g/n			
Frequency Band	**Scanning**	**Transmission**	
	All regions	USA & Canada (FCC/IC)	Europe (ETSI)
	2400 ~ 2483.5 Mhz	2400 ~ 2473.5 Mhz	2400 ~ 2483.5 Mhz
Modulation Type	DSSS, OFDM		
Data Rates	Up to 300 Mbps (MCS 0-23) with automatic rate adaptation		
Antenna	Integrated modular high efficiency PIFA omnidirectional antenna		

IEEE 802.11a/n/ac			
Frequency Band	**Scanning**	**Transmission**	
	All regions	USA & Canada (FCC/IC)	Europe (ETSI)
	4.92 ~ 5.08 GHz 5.15 ~ 5.25 GHz 5.25 ~ 5.35 GHz 5.47 ~ 5.725 GHz 5.725 ~ 5.825 GHz	5.15 ~ 5.25 GHz 5.25 ~ 5.35 GHz 5.725 ~ 5.82 5GHz	5.15 ~ 5.25 GHz 5.25 ~ 5.35 GHz 5.47 ~ 5.725 GHz
Dynamic Frequency Selection	DFS and DFS2		
Modulation Type	OFDM		
Data Rates	Up to 866 Mbps (MCS 0-9) for 11ac with automatic rate adaptation Up to 300 Mbps (MCS 0-23) for 11n with automatic rate adaptation		
Antenna	Integrated modular high efficiency PIFA omnidirectional antenna		

Maximum Transmit Power

For 5 GHz

MCS Index	Transmit Power(dBm)
802.11a	
6 Mbps	17
36 Mbps	17
48 Mbps	17
54 Mbps	15
802.11n HT20	
MCS 0,1,2,3,4,5	17
MCS 6,7	16
802.11n HT40	
MCS 0,1,2,3	17
MCS 4,5,6	16
MCS 7	15
802.11ac HT20	
MCS 0,1,2,3,4,5	17
MCS 6,7	16
MCS 8	15
802.11ac HT40	
MCS 0, 1, 2	17
MCS 3, 4, 5, 6	16
MCS 7	15
MCS 8	14
MCS 9	13
802.11ac HT80	
MCS 0, 1, 2, 3	16
MCS 4, 5	15
MCS 6, 7	14
MCS 8, 9	13

For 2.4 GHz

MCS Index	Transmit Power(dBm)
802.11b	
1 Mbps	18
2 Mbps	18
11 Mbps	18
802.11g	
6 Mbps	17
36 Mbps	17
48 Mbps	17
54 Mbps	15
802.11n HT20	
MCS 0,1,2,3,4,5	17
MCS 6,7	15
MCS 23	17
802.11n HT40	
MCS 0, 1, 2, 3	17
MCS 4, 5, 6	16
MCS 7	15

Note: The actual transmit power will be the lowest of:

- Value specified in the Device Template
- Maximum value allowed in the regulatory domain
- Maximum power supported by the radio

Country-Wise Max Transmit Powers (dBm)

Countries	2.4 GHz	5 GHz
Australia	20	23
Canada	30	23
Israel	20	20
Japan	20	20
UAE	20	17
USA	20	23

Receive Sensitivity

For 5 GHz

MCS Index	Receive Sensitivity
802.11ac VHT20	
MCS 0	-92
MCS 1	-89
MCS 2	-92
MCS 3	-82
MCS 4	-79
MCS 5	-75
MCS 6	-73
MCS 7	-71
802.11ac VHT40	
MCS 0	-89
MCS 1	-86
MCS 2	-83
MCS 3	-79
MCS 4	-76
MCS 5	-72
MCS 6	-71
MCS 7	-69
MCS 8	-65
MCS 9	-63
802.11ac VHT80	
MCS 0	-86
MCS 1	-83
MCS 2	-81
MCS 3	-76
MCS 4	-73
MCS 5	-69
MCS 6	-67
MCS 7	-65
MCS 8	-61
MCS 9	-59

MCS Index	Receive Sensitivity
802.11a	
6 Mbps	-93
36 Mbps	-81
48 Mbps	-77
54 Mbps	-75
802.11n HT20	
MCS 0	-92
MCS 1	-89
MCS 2	-87
MCS 3	-82
MCS 4	-79
MCS 5	-75
MCS 6	-73
MCS 7	-72
802.11n HT40	
MCS 0	-89
MCS 1	-86
MCS 2	-83
MCS 3	-79
MCS 4	-76
MCS 5	-72
MCS 6	-71
MCS 7	-69

Receive Sensitivity

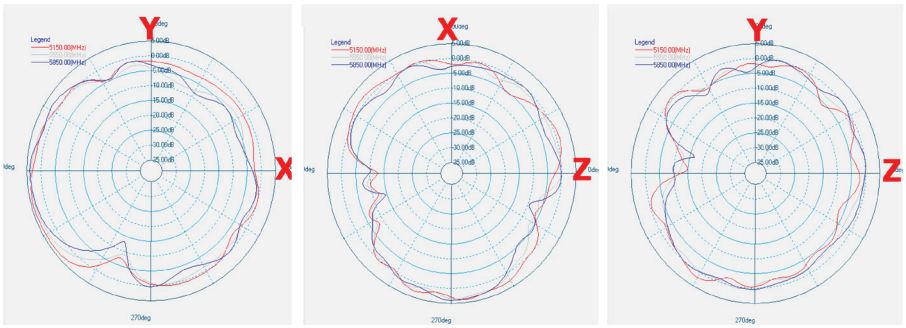
For 2.4 GHz

MCS Index	Receive Sensitivity
802.11b	
1 Mbps	-98
11 Mbps	-91
802.11g	
6 Mbps	-94
36 Mbps	-82
48 Mbps	-79
54 Mbps	-76
802.11n HT20	
MCS 0	-94
MCS 1	-90
MCS 2	-88
MCS 3	-84
MCS 4	-80
MCS 5	-76
MCS 6	-74
MCS 7	-73
802.11n HT40	
MCS 0	-90
MCS 1	-88
MCS 2	-85
MCS 3	-80
MCS 4	-78
MCS 5	-74
MCS 6	-72
MCS 7	-70

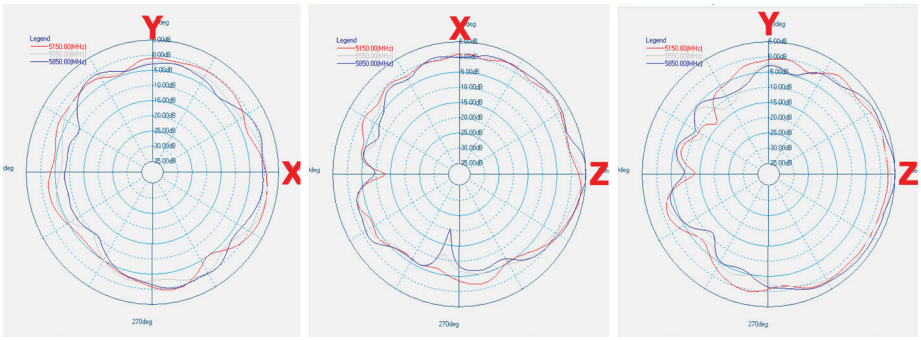
Internal Antenna Radiation Patterns

5 GHz

Antenna 1

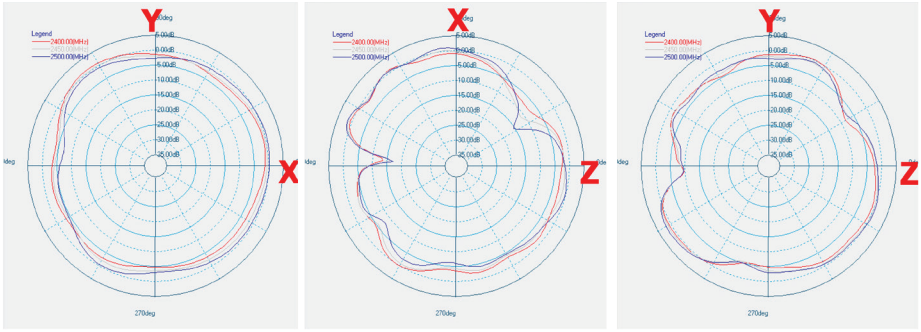


Antenna 2

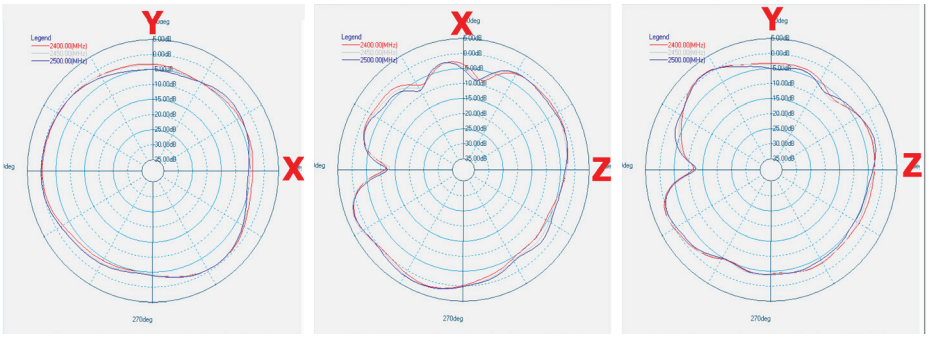


2.4 GHz

Antenna 1



Antenna 2



Wall-Mount Bracket Support

The wall-mount bracket packaged with the AirTight W-68 access point is designed for support in the following countries:

- US
- UK
- Germany
- Holland
- China
- Australia
- New Zealand

Regulatory Specifications

RF and Electromagnetic

Country	Certification
USA	FCC
Canada	IC
Europe	CE Countries covered under Europe certification: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Ireland, Italy, Luxembourg, Netherlands, Portugal, Spain, Sweden, UK, Switzerland, Norway, Iceland, Poland, The Czech Republic, Hungary, Estonia, Latvia, Lithuania, Malta, Cyprus, Slovakia, Slovenia.

Safety

Country	Certification
USA	UL, UL2043
Canada	cUL
International	CB (based on IEC standards)
European Union (EU)	Directive 2002/95/EC, RoHS

AirTight® NETWORKS
Comprehensive Cloud-Managed Wi-Fi

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