

AirTight C-55 Access Point

Dual radio, dual concurrent 2x2:2 Wi-Fi access or 24/7 wireless intrusion prevention.

Designed for High Performance

The AirTight C-55 is an enterprise grade 2x2:2 MIMO 802.11n platform with dual band, dual concurrent radios. One radio operates in the 2.4 GHz frequency band, while the other operates in the 5 GHz frequency band.

When used as a Wi-Fi access point (AP) the C-55 can support two spatial data streams and data rates of up to 300 Mbps per radio. It is ideal for delivering high performance in enterprise environments with high density of Wi-Fi clients, or where distinct applications need to run on separate radios or frequency bands, e.g., the 5 GHz radio dedicated for enterprise VoIP phones and 2.4 GHz for data communication.

With AirTight's industry leading wireless intrusion prevention system (WIPS) technology built-in, the C-55 can also operate as a dual radio, dual concurrent overlay WIPS sensor for simultaneous dedicated monitoring across both the 2.4 GHz and 5 GHz frequency bands, protecting enterprise networks 24/7 from wireless threats.

Software Configurable Operation

Customers can choose from multiple modes of operation:

- **Dual AP:** 802.11n access in 2.4 GHz on one radio and in 5 GHz on the other radio
- **Dual AP with Background WIPS:** 802.11n access in 2.4 GHz on one radio and in 5 GHz on the other radio with background wireless monitoring in respective bands;
- **Dedicated Overlay WIPS:** Dedicated WIPS sensor – in 2.4 GHz on one radio and 5 GHz on the other radio – for 24/7 wireless threat protection in both bands.

Aesthetically Pleasing

With an aesthetically pleasing design, the C-55 can easily blend in any indoor enterprise environment. With four integrated omnidirectional antennas, the C-55 provides optimal performance in horizontal ceiling mounted or vertical wall mounted positions.

KEY FEATURES

- ◊ Up to 300 Mbps per radio plus background WIPS monitoring
- ◊ Multiple SSIDs and VLANs per AP
- ◊ Integrated firewall, traffic shaping, QoS and BYOD controls per SSID
- ◊ Multiple guest access options with captive portal and walled garden
- ◊ Wi-Fi analytics and performance monitoring
- ◊ 24/7 dual band protection from wireless threats as a WIPS sensor
- ◊ 802.3af PoE compliant
- ◊ Support for wireless mesh network



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 C-55 is industry's first AP that 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

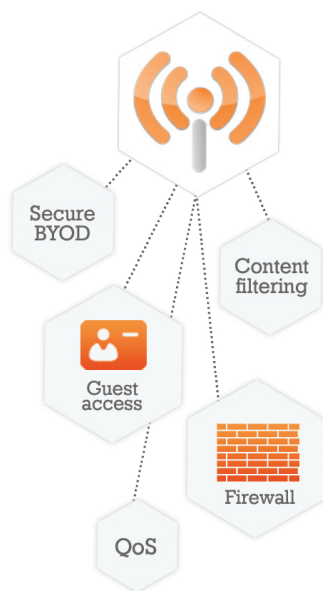
High Speed 802.11n Access



With 2x2 dual radios, the C-55 AP can support two spatial streams and data rates up to 300 Mbps per radio. With the ability to simultaneously offer Wi-Fi access in 2.4 GHz and 5 GHz frequency bands, it can support a heterogeneous mix of mobile devices and

applications in a high user density enterprise environment. The C-55 can be powered using the prevalent IEEE 802.3af PoE standard allowing it to seamlessly plug into existing network infrastructure.

Controller-less "Intelligent Edge" Architecture



AirTight's next generation controller-less architecture eliminates the cost, complexity, and inefficiency of traditional controller-based WLAN solutions. Instead of making APs tunnel data traffic to the 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

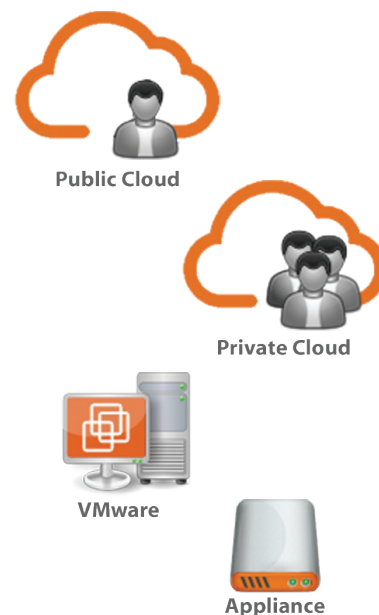
Plug-n-Play Deployment; Centrally Managed



AirTight APs automatically connect and synchronize with the AirTight 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.

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.

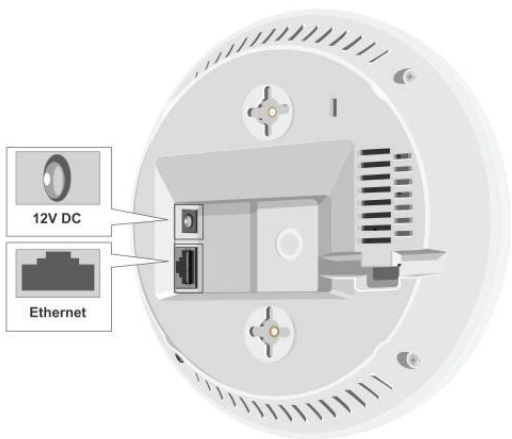


Physical Specifications



Front View

Property	Specification
Radius	80mm
Weight	0.66 lb. (0.3 kg)
Operating Temperature	0°C to 40°C (32°F to 104°F)
Storage Temperature	-25°C to 75°C (-13°F to 167°F)
Humidity	Up to 90% non-condensing



Rear View

Port	Description	Connector Type	Speed/Protocol
Power	This is a 12V DC input jack that can be used to power the device.	3.5 mm barrel	N/A
LAN	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.	RJ-45	10/100/1000 Mbps Gigabit Ethernet 802.3af Class 0 PoE PoE input voltage: 48V
Reset	Reset to factory default settings.	Pin-hole push-button	Hold down and power cycle the device to reset



Vertical wall mount



Horizontal ceiling mount

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 ~ 2483.5Mhz	2400 ~ 2473.5Mhz	2400 ~ 2483.5Mhz
Modulation Type	DSSS, OFDM		
Data Rates	Up to 300 Mbps (MCS 0-15) with automatic rate adaptation		
Antenna	Integrated modular high efficiency PIFA omnidirectional antenna		

IEEE 802.11a/n			
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 300 Mbps (MCS 0-15) with automatic rate adaptation		
Antenna	Integrated modular high efficiency PIFA omnidirectional antenna		

Receive Sensitivity

IEEE 802.11n - Receiver Sensitivity			
5 GHz		2.4 GHz	
802.11n (HT20)	802.11n (HT40)	802.11n (HT20)	802.11n (HT40)
-91dBm @ MCS0/8	-88dBm @ MCS0/8	-95dBm @ MCS 0/8	-92dBm @ MCS 0/8
-74dBm @ MCS7/15	-71dBm @ MCS7/15	-77dBm @ MCS7/15	-74dBm @ MCS 0/8

IEEE 802.11a/b/g - Receiver Sensitivity		
5 GHz	2.4 GHz	
802.11a	802.11b	802.11g
-95dBm @ 6Mbps	-98dBm @ 1Mbps	-92dBm @ 6Mbps
-76dBm @ 54Mbps	-91dBm @ 11Mbps	-76dBm @ 54Mbps

Maximum Transmit Power

For 2.4GHz

Transmitter	Target Power(dBm)
802.11b	
1 Mbps	17
11 Mbps	17
802.11g	
6 Mbps	17
54 Mbps	14
802.11n HT20	
MCS 0	17
MCS 7	14
802.11n HT40	
MCS 0	17
MCS 7	14

For 5GHz

Transmitter	Target Power(dBm)
802.11a	
6 Mbps	17
54 Mbps	14
802.11n HT20	
MCS 0	17
MCS 7	14
802.11n HT40	
MCS 0	17
MCS 7	14

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

County-Wise Max Transmit Powers

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

Security

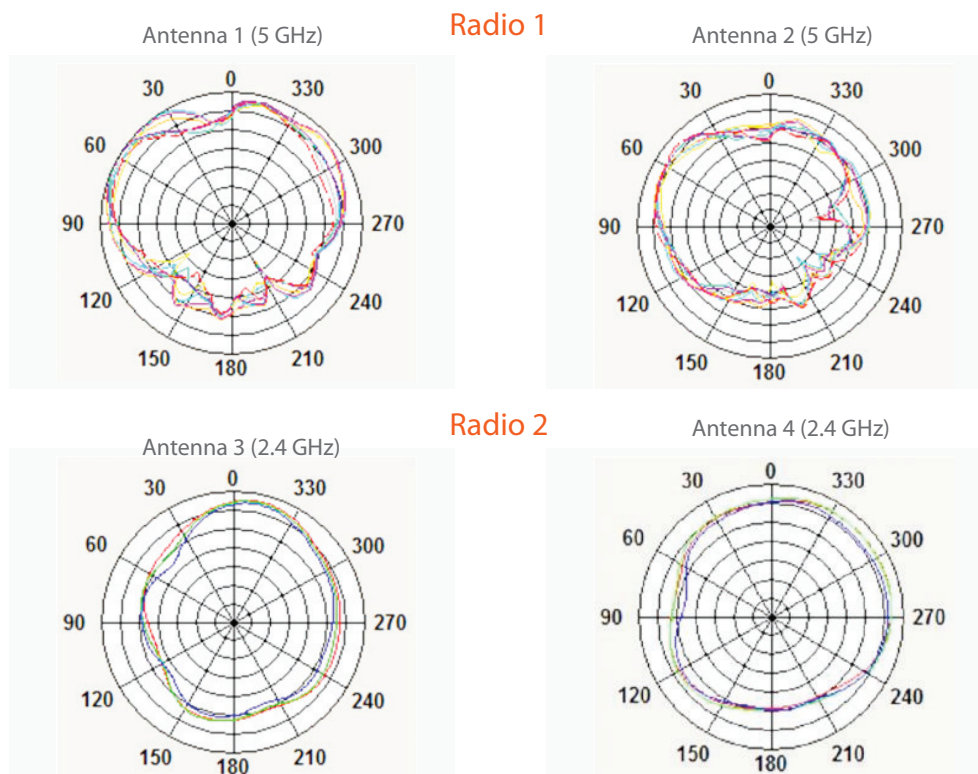
Access Point:

- WPA/WPA2 (802.11i) with TKIP or AES-CCMP encryption and PSK or 802.1x authentication
- Integrated WIPS background wireless scanning and Rogue AP prevention

Sensor:

- Dedicated dual-band WIPS scanning for complete 24/7 protection from wireless threats

Internal Antenna Radiation Patterns



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.
Japan	TELEC
India	WPC

Safety

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



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Comprehensive Cloud-Managed Wi-Fi

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