

C-55-E

Dual radio, dual concurrent 2x2:2 MIMO 802.11n access point

Key Specifications

- Up to 300 Mbps for 2.4GHz radio
- Up to 300 Mbps for 5GHz radio
- 802.11n support
- 2x2 MIMO with two spatial streams per radio
- Four connectors support omni or directional antennas
- 20/40 MHz channel width support
- 1x Gigabit Ethernet port
- Full operational capacity with 802.3af PoE or DC power
- Horizontal (ceiling) or vertical (wall) mounting support



Designed for High Performance

The Mojo C-55-E is an enterprise grade 2x2:2 MIMO 802.11n platform with dual concurrent 2.4GHz and 5GHz band radios supporting two spatial streams and data rates of up to 300 Mbps per radio. The C-55E can be powered using the prevalent IEEE 802.3af PoE standard allowing it to seamlessly plug into existing network infrastructure.

Why Choose the C-55-E?

The C-55-E 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 an aesthetically pleasing design, the C-55-E can easily blend in any indoor enterprise environment. The ability to simultaneously offer Wi-Fi access in the 2.4 GHz and 5 GHz frequency bands enables the C-55-E to support a heterogeneous mix of mobile devices and applications in a high user density enterprise environment.

Mojo Cloud Managed WiFi

The C-55-E is managed by the Mojo cloud managed platform which enables a complete workflow for wireless access, security and engagement. It leverages a purpose-built cloud architecture to produce enterprise-grade wireless networks for every application required, and ensures high reliability through an approach that is automated, scalable, secure and cost effective.

Key Features

- 100% controller-free
- Zero-touch deployment through automatic cloud activation and configuration
- External antennas support increases coverage range and point-to-point backhaul
- Cloud-defined operating modes for dedicated access, dedicated security or dual-mode
- Support for up to eight distinct SSIDs per radio
- Integrated firewall, traffic shaping, QoS and BYOD controls per SSID
- Dynamic RF optimization through smart steering, band steering and optimal channel selection
- Automated device access logging
- No-WiFi VLAN monitoring for extended rogue access point detection
- Third party analytics integration for real-time data transfer
- Self-healing wireless mesh networking

What really matters

The future of WiFi requires intelligent, self-reliant access points that support high-performing, highly reliable networks without the need of antiquated controllers. This approach removes the complexity, instability and high costs associated to enterprise WiFi today.

Access

The C-55-E creates WiFi networks that require less time and resources to deploy and maintain compared to traditional devices, resulting in significant cost savings.

- Mojo access points take less than two minutes to activate and configure after connecting to the cloud
- Support for up to eight individual SSID's per radio allows for maximum flexibility in network design
- Network controls like NAT, Firewall and QoS occur at the access point level, ensuring faster and more reliable networks
- Persistent scanning of all 802.11 channels results in increased insight and data about surrounding environmental factors that assist in RF optimization and client handling
- Smart steering addresses sticky client issues by automatically pushing clients with low speeds to a closer access point
- Band steering manages channel occupancy, pushing clients to the 5GHz channel for optimal throughput
- Access points continue to broadcast and support wireless networks even if their connection with the cloud is interrupted

Security

The C-55-E offers complete visibility and control of the wireless airspace that keeps the integrity of the network in check and actively protects users without manual intervention.


- Every Mojo access point is equipped with the industry's only fully integrated wireless intrusion prevention capabilities
- Runs complete spectrum scans while simultaneously serving wireless clients without a third radio
- Mojo's patented Marker Packets™ are used to accurately detect access points on any network with the fewest false positives in the industry
- Mojo access points can be converted to a dedicated security sensor with a single click for maximum wireless protection
- VLAN monitoring enables a virtual connection to non-WiFi networks for complete network rogue detection and prevention
- Automatic prevention combines over-the-wire and over-the-air techniques to keep unauthorized clients off the network and authorized clients on it
- Access points continue to scan for wireless threats and enforce security policy even if their connection with the cloud is interrupted

Engagement

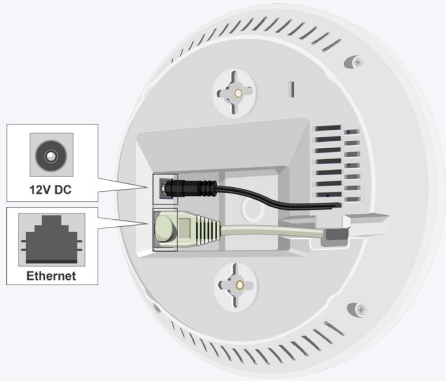
The C-55-E collects massive amounts of data and supports immersive guest network experiences that develops and reinforces the relationship between them and the brand.

- Persistent scanning of all 802.11 channels results in a comprehensive list of active wireless clients across the enterprise
- Choice statistics like location, duration, distance from access point and time of day are stored locally for every active wireless client
- Choice statistics like session duration, total data transfer up and down, data rate, smart device type and top-level domain are stored locally for every active connection
- Real-time notifications sent to third party systems that alert to the presence of enrolled devices
- Enables proximity marketing programs that trigger when certain devices are present
- Triggers automatic messaging via MMS, in-browser notifications and more

Physical Specifications

 <p>Front View</p>	Property	Specification
	Radius	80mm
	Height	40mm
	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

Physical Specifications

	Port	Description	Connector Type	Speed/Protocol
 <p data-bbox="284 730 391 758">Rear View</p>	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 Mojo 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

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		

Wi-Fi Specifications

Frequency, Modulation, and Data Rates

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

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

Country-Wise Max Transmit Powers (dBm)

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

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

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

About Mojo Networks, Inc.

Mojo Networks is redefining the modern WiFi platform. Imagine the scalability to set up millions of access points with a few clicks, all from your smartphone. Envision an Internet experience that engages users with your business to drive results. Stay secure on the same WiFi cloud powering major brands and the highest levels of government. And enjoy the cost savings of a cloud-first solution without the pricey markup of proprietary hardware. Welcome to the era of prolific connectivity. Founded in 2003, Mojo Networks (formerly known as AirTight Networks), serves customers in the Fortune 500, Global 2000 and large carriers around the world. Request a free demo of Mojo Cloud Managed WiFi Platform at www.mojonetworks.com.

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

