

C-75-E

Dual radio, dual concurrent 3x3:3 MIMO
802.11ac Wave 1 access point

Key Specifications

- Up to 450 Mbps for 2.4 GHz radio
- Up to 1.3 Gbps for 5 GHz radio
- 802.11ac Wave 1 support
- 3x3 MIMO with three spatial streams per radio
- Six connectors support omni or directional antennas
- 20/40/80 MHz channel width support
- 2x Gigabit Ethernet port
- 1x USB 2.0 Service 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-75-E is an enterprise-grade 3x3 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, three spatial streams, and data rates of up to 1.3 Gbps and 450 Mbps, respectively.

Why Choose the C-75-E?

The C-75-E is perfect for busy environments with diverse client ecosystem and WiFi requirements. It is a high-horsepower access point that can support critical applications like voice, video and cloud with ease. Common deployment scenarios include offices, classrooms and meeting spaces.

The C-75-E combines high performing 802.11ac access with industry-leading wireless intrusion prevention without the need for a third radio, making it much lower in cost compared to competitive models while still providing the most secure wireless experience in the market today.

Mojo Cloud Managed WiFi

The C-75-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-75-E supports 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 5 GHz 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-75-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-75-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	
	Physical Dimensions		177 mm × 155 mm × 42 mm (excluding RSMA Connectors)	
	Weight		0.82 lb. (0.37 kg)	
	Operating Temperature		0°C to 40°C (32°F to 104°F)	
	Storage Temperature		-40°C to 70°C (-40°F to 158°F)	
	Humidity		5% to 95% non-condensing	
	Max power consumption		Peak: 13.104W	Average: 12.04W
			Idle/min: <8W	



Rear View

Port	Description	Connector Type	Speed/Protocol
Power	This is a 12V DC input jack that can be used to power the device.	5.5mm Overall Diameter 2.5mm Center Pin/Hole	N/A
Console	To establish 'Config Shell' terminal session via serial connection.	RJ-45	RS 232 Serial Bits per second: 115200 Data Bits: 8, Stop Bits: 1 Parity: None Flow Control: None
LAN1	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
LAN2	Gigabit Ethernet port that can be used for wired extension for an SSID.	RJ-45	10/100/1000 Mbps Gigabit Ethernet



Side View

Port	Description	Connector Type	Speed/Protocol
Reset	Reset to factory default settings	Pin-hole push-button	Hold down and power cycle the device to reset
USB	Not in use	Not in use	Not in use

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 450 Mbps (MCS 0-23) with automatic rate adaptation		
Antenna	6 external omnidirectional antenna with RP-SMA connector type		

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 ~ 5.825 GHz	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 1.3 Gbps (MCS 0-9) for 11ac with automatic rate adaptation Up to 450 Mbps (MCS 0-23) for 11n with automatic rate adaptation		
Antenna	6 external omnidirectional antenna with RP-SMA connector type		

Maximum Transmit Power

For 5 GHz

MCS Index	Transmit Power(dBm)
802.11a (legacy)	
6 Mbps	18
36 Mbps	18
48 Mbps	18
54 Mbps	17
802.11n HT20 (legacy)	
MCS 0,1,2,3,4,8,9,10,11,12,16,17,18,19,20	18
MCS 5,13,21	18
MCS 6,14,22	18
MCS 7,15,23	17
802.11n HT40	
MCS 0,1,2,3,4,8,9,10,11,12,16,17,18,19,20	18
MCS 5,13,21	18
MCS 6,14,22	18
MCS 7,15,23	17
802.11ac 256QAM VHT80	
3/4 Code Rate	15
5/6 Code Rate	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

For 2.4 GHz

MCS Index	Transmit Power(dBm)
802.11g (legacy)	
6 Mbps	20
54 Mbps	18
802.11n HT20 (legacy)	
MCS 0/8/16	20
MCS 7/15	18
MCS 23	17
802.11n HT40	
MCS 0/8/16	20
MCS 7/15	17
MCS 23	16

Country-Wise Max Transmit Powers (dBm)

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

Receive Sensitivity

For 5 GHz

MCS Index	Receive Sensitivity
802.11a (legacy)	
6 Mbps	-90
36 Mbps	-77
48 Mbps	-74
54 Mbps	-72
802.11n HT20 (legacy)	
MCS 0,1,2,3,4,8,9,10,11,12,16,17,18,19,20	-90
MCS 5,13,21	-73
MCS 6,14,22	-71
MCS 7,15,23	-70
802.11n HT40	
MCS 0,1,2,3,4,8,9,10,11,12,16,17,18,19,20	-86
MCS 5,13,21	-69
MCS 6,14,22	-68
MCS 7,15,23	-67
802.11ac 256QAM VHT80	
HT20 MCS 8 @ 3/4 Code rate	-59
HT20 MCS 9 @ 5/6 Code Rate	-57
HT40 MCS 8 @ 3/4 Code Rate	-56
HT40 MCS 9 @ 5/6 Code Rate	-54
HT80 MCS 8 @ 3/4 Code rate	-53
HT80 MCS 9 @ 5/6 Code Rate	-51

For 2.4 GHz

MCS Index	Receive Sensitivity
802.11g (legacy)	
1 Mbps	-95
6 Mbps	-91
11 Mbps	-87
54 Mbps	-74
802.11n HT20 (legacy)	
MCS 0/8/16	-91
MCS 7/15/23	-70
802.11n HT40	
MCS 0/8/16	-87
MCS 7/15/23	-67

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 Fortune 500s, Global 2000s 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. Set up a free trial of Mojo Networks today 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.

Safety

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