

# C-65

Dual radio, dual concurrent 2x2:2 MIMO  
802.11ac Wave 1 access point

## Key Specifications

- Up to 300 Mbps for 2.4 GHz radio
- Up to 866 Mbps for 5 GHz radio
- 802.11ac Wave 1 support
- 2x2 MIMO with two spatial streams per radio
- Four integrated omnidirectional antennas
- 20/40/80 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



## Low Cost, High Performance

The Mojo C-65 is an enterprise-grade 2x2 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.

## Why Choose the C-65?

The C-65 delivers enterprise-grade functionality to environments that require standard network and Internet access. It is built for networks designed for heavy smartphone and tablet access like guest or public WiFi, or smaller-footprint locations that support limited devices. Common deployment scenarios include branch offices, stores and small classrooms.

The C-65 has one of the lowest costs of any access point on the market today that delivers high-quality, enterprise-grade features and functionality expected by all organizations.

## Mojo Cloud Managed WiFi

The C-65 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
- 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-65 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-65 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.

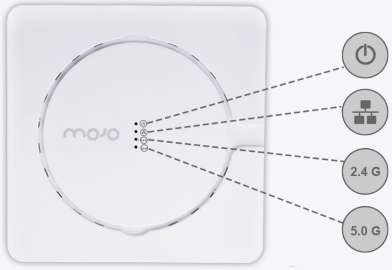
- Every Mojo access point is equipped with the industry's only fully integrated wireless intrusion prevention capabilities
- Runs complete spectrum scans while simultaneously serving wireless clients without a third radio
- Mojo's patented Marker Packets™ are used to accurately detect access points on 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

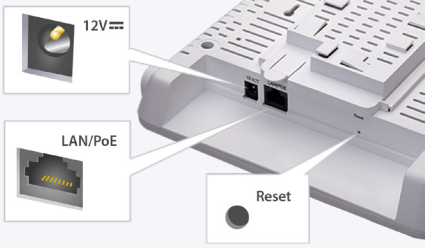
## Engagement

The C-65 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

	Property	Specification
Front View	Physical Dimensions	210 mm x 210 mm x 67 mm
	Weight	3.22 lb. (1.46 kg)
	Operating Temperature	-20°C to 55°C (-4°F to 131°F)
	Storage Temperature	-40°C to 70°C (-40°F to 158°F)
	Humidity	5% to 95% non-condensing

 <p>Rear View</p>	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
	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

### 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	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 ~ 5.825 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 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)
<b>802.11a (legacy)</b>	
6 Mbps - 24 Mbps	20
36 Mbps	20
48 Mbps	18
54 Mbps	17
<b>802.11n HT20 (legacy)</b>	
MCS 0,1,2,3,4	20
MCS 5,6,7	17
MCS 8	15
<b>802.11n HT40</b>	
MCS 0,1,2,3,4	20
MCS 5,6,7	17
MCS 8,9	15
<b>802.11ac 256QAM VHT80</b>	
MCS 0,1,2,3,4	20
MCS 5,6,7	17
MCS 8,9	15

For 2.4 GHz

MCS Index	Transmit Power(dBm)
<b>802.11b (legacy)</b>	
1 Mbps - 11 Mbps	20
<b>802.11g (legacy)</b>	
6 Mbps - 24 Mbps	20
36 Mbps	20
48 Mbps	20
54 Mbps	20
<b>802.11n HT20 (legacy)</b>	
MCS 0,1,2,3,4,5,8,9,10,11,12,13	20
MCS 6,7,14,15	18
<b>802.11n HT40</b>	
MCS 0,1,2,3,4,5,8,9,10,11,12,13	20
MCS 6,7,14,15	18

**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

**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

**Receive Sensitivity**

For 5 GHz

MCS Index	Receive Sensitivity
<b>802.11a (legacy)</b>	
6 Mbps	-89
54 Mbps	-72
<b>802.11n HT20 (legacy)</b>	
MCS 0/8	-89
MCS 7/15	-69
<b>802.11n HT40</b>	
MCS 0/8	-87
MCS 7/15	-66
<b>802.11ac</b>	
VHT20 MCS0	-87
VHT20 MCS8	-66
VHT40 MCS0	-85
VHT40 MCS9	-61
VHT80 MCS0	-84
VHT80 MCS9	-58

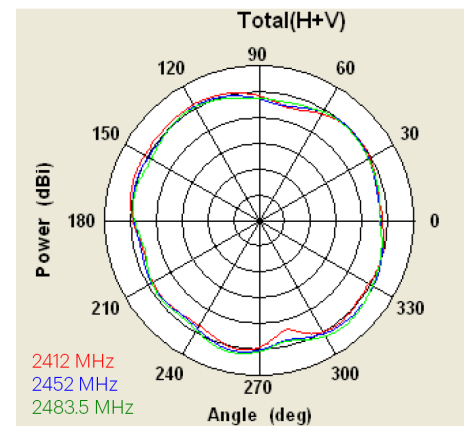
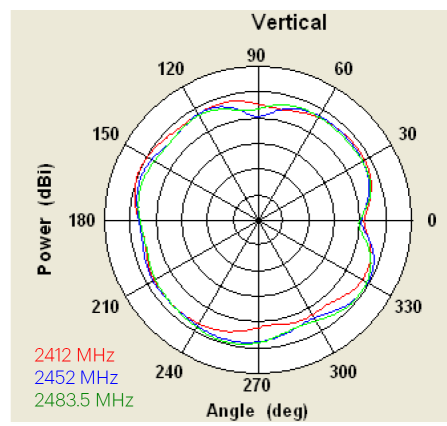
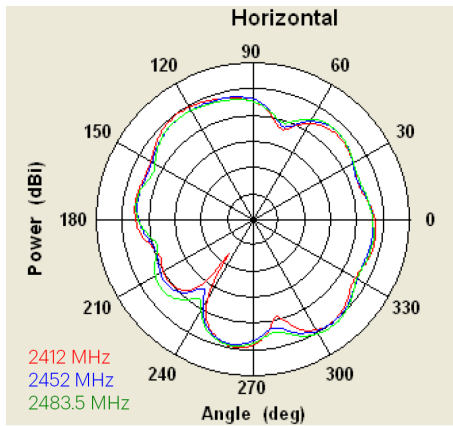
For 2.4 GHz

MCS Index	Receive Sensitivity
<b>802.11g (legacy)</b>	
1 Mbps	-92
6 Mbps	-89
11 Mbps	-84
54 Mbps	-72
<b>802.11n HT20 (legacy)</b>	
MCS 0/8	-89
MCS 7/15	-69
<b>802.11n HT40</b>	
MCS 0/8	-87
MCS 7/15	-66

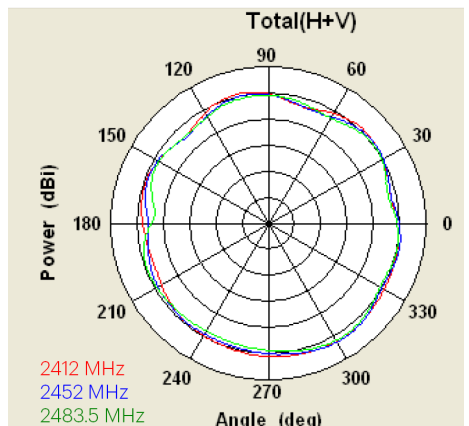
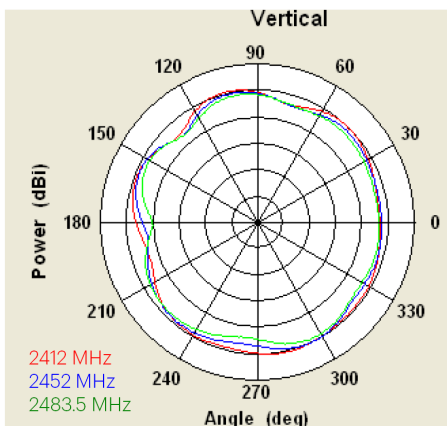
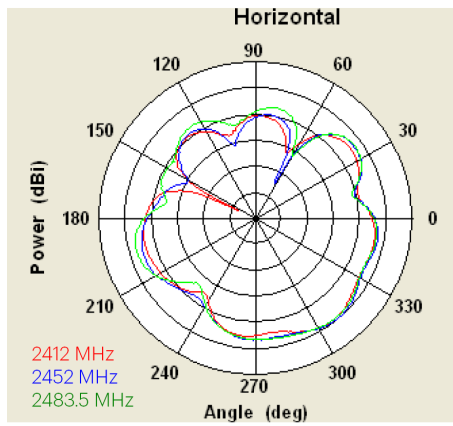
## Internal Antenna Radiation Patterns

2.4 GHz

Antenna 1

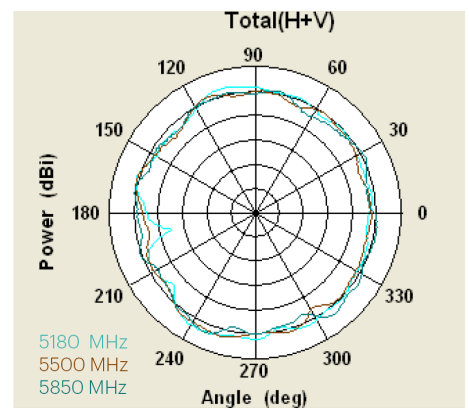
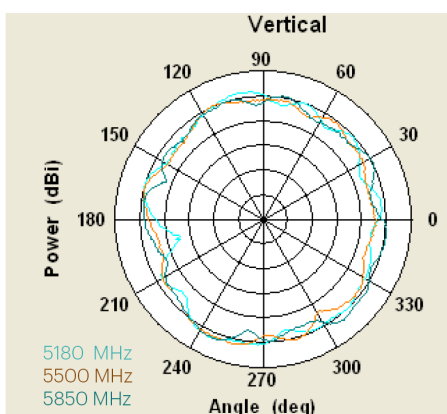
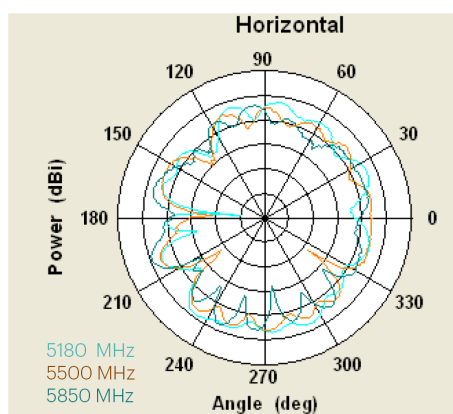


Antenna 2

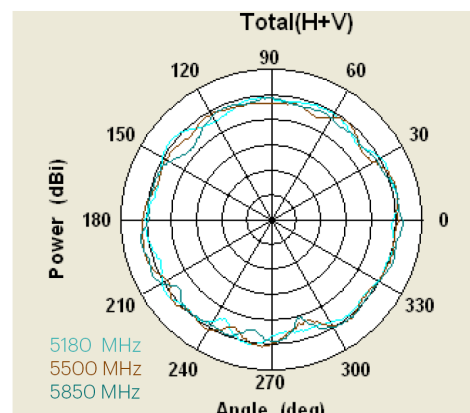
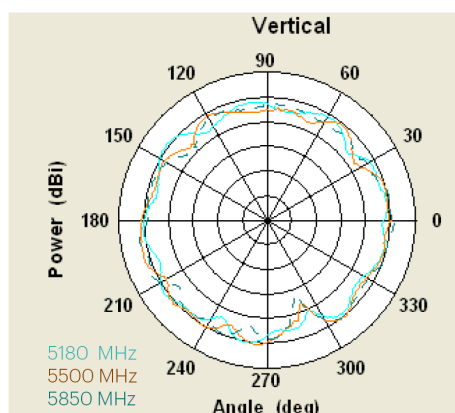
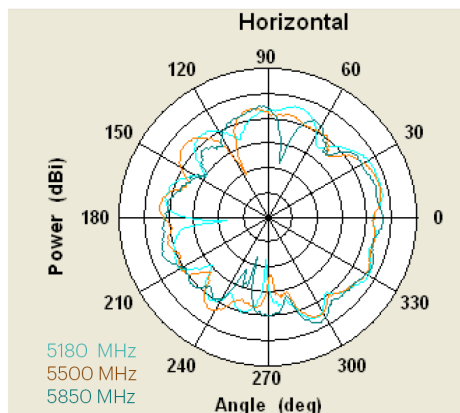


5 GHz

Antenna 1



## Antenna 2



### 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](http://www.mojonetworks.com).

## Regulatory Specifications

### RF and Electromagnetic

Country	Certification
USA	FCC Part 15.247, 15.407
Canada	IC
Europe	CE EN300.328, EN301.893 Countries covered under Europe certification: Austria, Belgium, Cyprus, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Iceland, Luxembourg, Latvia, Lithuania, Malta, Netherlands, Norway, Poland, Portugal, Spain, Sweden, Slovakia, Slovenia, Switzerland, The Czech Republic, UK.

### Safety

Country	Certification
USA	UL 60950
Canada	cUL 60950
European Union (EU)	EN 60950, RoHS