

SPECIFICATIONS	
Wi-Fi Standard	802.11ax (Wi-Fi 6), including support for OFDMA, 1024-QAM, MU MIMO, Target Wake Time (TWT), Spatial Frequency Reuse (BSS Coloring). Backwards compatibility with 802.11a/b/g/n/ac
Combined Highest Supported Data Rates	Dual-Band: 3.5 Gbps Dual-5GHz (internal antenna model): 4.8 Gbps
2.4 GHz	4x4 : 4 802.11ax up to 1,148 Mbps data rate
5 GHz	4x4 : 4 802.11ax up to 2,400 Mbps data rate
MIMO Operation	Four spatial stream Single User (SU) MIMO for up to 2,400 Mbps wireless data rate to individual 4x4 HE80 Four spatial stream Multi User (MU) MIMO for up to 2,400 Mbps wireless data rate to up to four MU-MIMO capable client devices simultaneously
Dedicated Third Radio	2/2 : 2SS, Dual-band WIDS/WIPS, spectrum analysis, synthetic client and location analytics radio
Internal Antennas (AP63)	Four 2.4 GHz omni-directional antennas with 4 dBi peak gain Four 5 GHz omni-directional antennas with 6 dBi peak gain
Bluetooth 5.0	vBLE 16-element Directional Antenna Array + Omni Bluetooth Antenna
Beam Forming	Transmit Beamforming and Maximal Ratio Combining
Power Options	802.3at PoE (no PoE out), 802.3bt PoE
Dimensions	285 x 285 x 86 mm (11.2 x 11.2 x 3.4 in)
Weight	AP63: 3.4kg (7.5 lbs) excluding mount and accessories AP63E: 3.9kg (8.6 lbs) excluding mount and accessories
Shipping Box	Size: 473 x 390 x 153 mm (18.6 x 15.4 x 6.0 in)
Operating Temperature	-40° to 55° C with solar loading -40° to 65° C without solar loading
Operating Humidity	10% to 90% maximum relative humidity, non-condensing
Operating Altitude	3,048 m (10,000 ft)
Enclosure	IP67 / NEMA 4 compliant
Electromagnetic Emission	FCC Part 15 Class B

I/O AND INDICATORS	
Eth0	100/1000Base-T, 2.5GBase-T (802.3bz); RJ45; PoE PD (requires 802.3bt)
Eth1	10/100/1000Base-T; RJ45 Optional 802.3af PoE PSE mode (requires 802.3bt on Eth0)
External Antennas (AP63E)	Six N-type Plugs (four dual-band for client radios; two dual-band for the 3 rd radio)
Reset	Reset to the factory default settings
Indicators	One multi-color status LED
Compliance Standards	CSA/UL 62368-1 FCC Part 15.247, 15.407, 15.107, and 15.109 RSS247 ICES003 (Canada)

MOUNTING BRACKETS	
APOUTBR-KIT	Contains Flush Mount and Articulating Mount Brackets

ORDERING INFORMATION	
US/FCC Domain	AP63-US (Internal Antenna) AP63E-US (External Antenna)
Rest of the World	AP63-WW (Internal Antenna) AP63E-WW (External Antenna)

BLUETOOTH ANTENNA ARRAY



PATENTED vBLE TECHNOLOGY

In addition to the industry-leading Wi-Fi technology that is at the heart of the AP63 access point, it also incorporates our second generation patented dynamic 16-element Virtual Bluetooth LE (vBLE) antenna array, which combined with our machine learning, enables businesses to eliminate the need for battery-powered beacons. This maximizes the scalability and optimizes the investment cost of deploying location based services.

Virtual Bluetooth LE enables businesses to provide rich location-based experiences that are engaging, accurate, real-time and scalable.