Mist AP61 Access Point



Outdoor Wi-Fi and Bluetooth® LE

Mist built the first Al-driven wireless platform, designed specifically for the Smart Device Era. Mist's Learning Wireless LAN (WLAN) makes Wi-Fi predictable, reliable and measurable by providing unprecedented visibility into the user experience and by replacing time consuming manual IT tasks with proactive automation. In addition, Mist is the first vendor to bring Enterprise-grade Wi-Fi, Bluetooth* LE and IoT together to deliver personalized, location-based wireless services without requiring battery-powered beacons.

The Mist Learning WLAN consists of the following components:

Mist Marvis Al - Patent-pending machine learning algorithms adapt in real-time to optimize the wireless user experience. In addition, Marvis uses Al to proactively automate IT operations, provide real-time alerts, and predict problems before they arise

Mist Cloud - All wireless deployment, setup, operations, and insight are handled via the Mist cloud, which was designed to provide unprecedented visibility and control at web scale. A microservices architecture provides maximum agility when rolling out new features/services.

Mist Access Points - The AP21, AP41, and AP61 (detailed here), are high performance, enterprise-grade Access Points for 802.11ac Wave 2 Gigabit Wi-Fi and Bluetooth* Low Energy. The Mist BT11 is an enterprise-grade Access Point, exclusively for Bluetooth* Low Energy. To view other datasheets, go to www.mist.com/resources/datasheets/

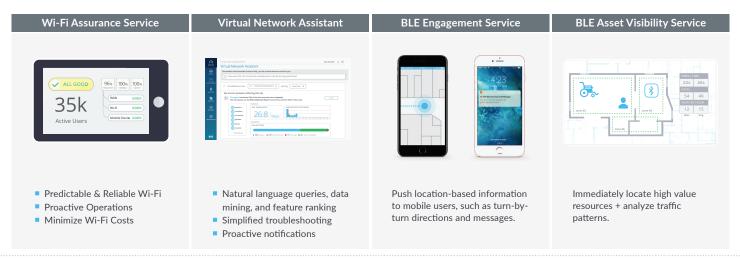




The Mist cloud, featuring a micro-services architecture, and powered by Marvis Al

| | Mišt AP61 | Mist | AP21 | BT11 |
|--------------------------|-------------------------|-------------------------|-------------------------|------------------|
| Deployment | Outdoor | Indoor | Indoor | Indoor |
| Wi-Fi | 802.11ac Wave2 4x4:4 | 802.11ac Wave2 4x4:4 | 802.11ac Wave2 2x2:2 | |
| Wi-Fi Tri-Radio | V | V | V | - |
| IoT Interface | | V | | |
| Antenna Options | Internal/External | Internal/External | Internal | Internal |
| Virtual Bluetooth* LE | V | V | V | V |
| Warranty | 1 Year | Limited Lifetime | Limited Lifetime | Limited Lifetime |

Services available on the Mist Learning WLAN:



High performance outdoor Wi-Fi access

The AP61 delivers high performance wireless access with three 802.11ac Wave 2 radios that deliver up to 1,730 Mbps in the 5GHz band and up to 800 Mbps in the 2.4Ghz band.

Whether you want to extend your user's experience outside the four walls, or you want to set up pervasive outdoor wireless with mesh backhaul, the AP61 delivers the best performance with the simplest operations in an industrial-grade form factor.

High accuracy location

The AP61 has a 16-element Virtual Bluetooth® LE (vBLE) antenna array controlled from the Mist Cloud. Passive antennas enhance the power of a single transmitter and produce directional beams to accurately detect distance and location with 1 to 3 meter accuracy. With Mist's patented vBLE technology, you can deploy an unlimited amount of virtual beacons in your physical environment without requiring battery powered BLE beacons.



The AP61 works with the Mist cloud to provide high accuracy enterprisegrade Bluetooth* LE location services using virtual beacons

Unprecedented insight and action

A dedicated dual band radio collects data for Mist's patent-pending Proactive Analytics and Correlation Engine (PACE), which leverages machine learning to analyze user experience, correlate problems and automatically detect the root cause of problems. These metrics are used to monitor service level expectations and provide proactive recommendations to ensure problems don't occur (or are fixed as quickly as possible when they do).

Dynamic packet capture

The Mist platform automatically captures packets and streams them to the cloud when major issues are detected. This saves IT time and effort and eliminates the need for truck rolls with sniffers.



Effortless, cloud-based setup and updates

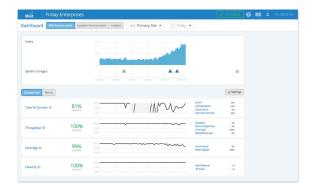
The AP61 automatically connects to the Mist cloud, downloads its configuration, and joins the appropriate network. Firmware updates are retrieved and installed automatically, ensuring that the network is always up to date with new features, bug fixes, and security updates.

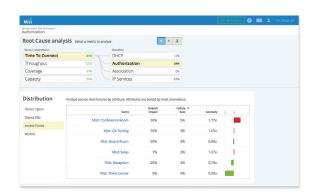
Dynamic debugging

Constantly monitor services running on the AP61 and send alerts whenever a service behaves abnormally. Dynamic debugging relieves IT of having to worry about an AP going offline or any services running on becoming unavailable

Automatic RF optimization

The AP61's dual-band scanning mode continuously scans the airspace for threats and interference. This ensures optimal performance under what could otherwise be challenging RF conditions. The AP61's dual-band sensor continuously scans the airspace for threats and interference.





The AP61 collects data for the Mist cloud to use for Proactive Analytics and Event Correlation, as well as enforcing Service Level Expectations

Mist AP61 Specifications

| FEATURES | AP61 |
|--|---|
| Gigabit Wi-Fi | Wave 2 |
| Combined Highest Supported Data Rates | 2.5 Gbps |
| 2.4Ghz | 4x4:4 802.11b/g/n/ac up to 800 Mbps data rate. 802.11ac for VHT capable Proprietary clients |
| 5Ghz | 4x4:4 802.11a/n/ac Wave 2 up to 1,733 Mbps data rate. |
| МІМО | MU-MIMO (Multi-user) SU-MIMO (Single-user) |
| Dedicated Third Radio | 2.4 GHz & 5 GHz dual-band WIDS/WIPS, spectrum analysis & location analytics radio |
| Antenna Options | Internal and External |
| Bluetooth® | 16 directional antenna + 1 omni antenna |
| Beam Forming | Transmit Beamforming and Maximal Ratio Combining |
| Power Options | 802.3at PoE |
| Dimensions | 310mm x 310mm x 107mm (12.2in x 12.2in x 4.3in) |
| Weight | Internal Antenna - 4.309 kg (9.5 lbs) External Antenna - 4.5 35 kg (10 lbs) |
| Operating Temperature | -20° to 65° C; no solar loading -20° to 55° C; with solar loading |
| Operating Humidity | 10% to 90% maximum relative humidity, non- condensing |
| Operating Altitude | 3,048m (10,000 ft) |
| Electromagnetic Emissions | FCC Part 15 Class B |
| I/O | 1 - 10/100/1000BASE-T auto-sensing RJ-45 with PoE 1 - 10/100/1000BASE-T auto-sensing RJ-45 |
| Indicators | Multi-color status LED |
| Compliance Standards | UL 60950-1 CAN/CSAC22.2 No. 60950-1 FCC Part 15.247, 15.407, 15.107, and 15.109 RSS247 ICES003 (Canada) |

| I/O PORTS & ACCESSORIES | | |
|-------------------------|--|--|
| Reset | Reset to the factory default settings | |
| Eth1 | 10/100/1000 BaseT RJ45 interface | |
| Eth0+PoE | 10/100/1000 BaseT RJ45 interface that supports 802.3at PoE | |
| Brackets | Vertical, Tilt and Horizontal mounting kit included | |
| Kensington Lock | No | |

| ORDERING INFORMATION | | |
|----------------------|---|--|
| US/FCC Domain | AP61-US (Internal Antenna) AP61E-US (External Antenna) | |
| Rest of the World | AP61-WW (Internal Antenna) AP61E-WW (External Antenna) | |



Mist AP61 Access Point



Mist Omni-Directional Bluetooth® Antenna Array

