



AP41 ACCESS POINT SERIES

Highest Performance Wi-Fi, Bluetooth® LE and IoT

MIST LEARNING WLAN

Mist has brought true innovation to the wireless space with the world's first AI-driven Wireless LAN (WLAN).

The Mist Learning WLAN makes Wi-Fi predictable, reliable and measurable with unprecedented visibility into the user experience by leveraging its unique Service Level Expectation (SLE) metrics. Time consuming manual IT tasks are replaced with AI-driven proactive automation and self-healing, lowering Wi-Fi operational costs and saving substantial time and money.

Mist also brings enterprise-grade Wi-Fi, Bluetooth Low Energy (LE) and IoT together so businesses can increase the value of their wireless networks through personalized location services, such as wayfinding, proximity notifications, and asset location. With Mist's patented virtual BLE (vBLE) technology, no battery beacons or manual calibration are required.

All operations are managed via Mist's open and programmable microservices cloud architecture. This delivers maximum scalability and performance while also bringing DevOps agility to wireless networking and location services.

THE MIST CLOUD

The Mist Cloud leverages a microservices architecture in order to bring unparalleled agility, scale and resiliency to your network. It leverages an AI engine to lower OpEx and deliver unprecedented insight by using data science to analyze large amounts of rich metadata collected from Mist Access Points.

The Mist platform is 100% programmable, using open APIs, for full automation and seamless integration with complementary products across the LAN, WAN, security, engagement and asset location areas.

The Mist Cloud enables wireless and location services to be consumed in a scalable and cost effective manner.



MIST ACCESS POINT FAMILY

The AP41 Series consists of: AP41 with internal omnidirectional antennas and AP41E with external antenna connectors. The AP21, AP41, and AP61 are high performance, enterprise grade Access Points for 802.11ac Wave 2 Gigabit Wi-Fi and Bluetooth LE. The Mist BT11 is an enterprise-grade Access Point exclusively for Bluetooth LE. To view other datasheets, go to: www.mist.com/resources/datasheets

	AP61	AP41	AP21	BT11
Deployment	Outdoor	Indoor	Indoor	Indoor
Wi-Fi	802.11ac Wave 2 4x4 : 4SS	802.11ac Wave 2 4x4 : 4SS	802.11ac Wave 2 2x2: 2SS	-
Wi-Fi Tri Radio	✓	✓	-	-
IoT Interface	-	✓	-	-
Antenna Options	Internal/ External	Internal/ External	Internal	Internal
Virtual Bluetooth LE	✓	✓	✓	✓

SERVICES AVAILABLE FOR THE MIST AP41

WI-FI CLOUD SERVICES



WI-FI WITH ASSURANCE

Mist makes Wi-Fi predictable, reliable, and measurable. Automate operations, save time and money, and get unprecedented visibility into the Wi-Fi user experience.



MARVIS VIRTUAL ASSISTANT

Meet Marvis – the first AI-driven virtual network assistant. Now you can ask questions and get intuitive answers on par with a wireless expert.

BLUETOOTH LE CLOUD SERVICES



USER ENGAGEMENT

Add real-time wayfinding, proximity notifications and mobile app integration by enabling this service to boost experience and engagement with the virtualized Bluetooth LE within your Mist AP.



ASSET VISIBILITY

Leverages Mist's patented virtualized Bluetooth LE antenna array to easily locate and identify people and things. Brings visibility to BLE-enabled mobile/IoT devices and 3rd party asset tags.

SPECIFICATIONS	
Wi-Fi Standard	802.11ac Wave 2 (backwards compatibility with 802.11a/b/g/n)
Combined Highest Supported Data Rates	2.5 Gbps
2.4 Ghz	4x4:4 802.11b/g/n/ac up to 800 Mbps data rate 802.11ac for VHT capable clients
5 Ghz	4x4:4 802.11a/n/ac Wave 2 up to 1,700 Mbps data rate
MIMO Operation	Four spatial stream Single User (SU) MIMO for up to 1,733 Mbps wireless data rate to individual 4x4 VHT80 Four spatial stream Multi User (MU) MIMO for up to 1,733 Mbps wireless data rate to up to three MU-MIMO capable client devices simultaneously
Dedicated Third Radio	2.4 GHz & 5 GHz dual-band WIDS/WIPS, spectrum analysis & location analytics radio
Internal Antennas (AP41 only)	Four 2.4GHz omni-directional antennas with 4 dBi peak gain Four 5GHz omni-directional antennas with 6 dBi peak gain
Bluetooth	16 Directional Antennae + 1 Omni Antenna Bluetooth Array
Beam Forming	Transmit Beamforming and Maximal Ratio Combining
Power Options	802.3at PoE. 12V/3A DC power supply
Powering Adaptor	100-240VAC, 50-60 Hz, input. 12V/3A DC output.
Dimensions	215 x 215 x 52 mm (8.46 x 8.46 x 2.05 in)
Weight	1.6 kg (3.53 lbs) excluding mount and accessories
Shipping Box	Size (L x W x H): 285 x 268 x 86 mm (10.6 x 10.6 x 3.4 in) Weight: 2.18 kg (4.82 lbs) Boxes per carton: 8
Operating Temperature	Internal antenna: 0° to 40° C External antenna: -20° to 50° C
Operating Humidity	10% to 90% maximum relative humidity, non-condensing
Operating Altitude	3,048m (10,000 ft)
Electromagnetic Emissions	FCC Part 15 Class B
Reliability (MTBF)	AP41: 1,243,955 hours (142 yrs) @ 25C; 748,877 hours (85 yrs) @ 40C AP41E: 1,264,116 hours (144 yrs) @ 25C; 508,342 hours (58 yrs) @ 40C

I/O PORTS & ACCESSORIES	
Reset	Reset to the factory default settings
USB	USB2.0 support interface
12VDC	Input for optional DC power supply
IoT	8-pin interface for digital I/O and analog input (0 to +5V)
Module	10/100/1000 BaseT RJ45; optional PoE PSE mode
Eth1	10/100/1000 BaseT RJ45 interface
Eth0+PoE	10/100/1000 BaseT RJ45; supports 802.3at PoE PD
External Antennas (AP41E only)	Four RP-SMA Male connectors
Indicators	One multi-color status LED

COMPLIANCE STANDARDS	
CE Mark	
UL 60950-1	
CAN/CSAC22.2	
No. 609501	
UL 2043	
FCC Part 15.247, 15.407, 15.107, and 15.109	
RSS-247	
ICES-003	

MOUNTING BRACKETS	
AP41BR1	Ceiling T-bar
AP41BR2	Ceiling Drywall
AP41BR3	5/8" Threaded Rod
AP41BR4	2mm (1/16") Threaded Rod

ORDERING INFORMATION	
US/FCC Domain	AP41-US (Internal Antenna) AP41E-US (External Antenna)
Rest of the World	AP41-WW (Internal Antenna) AP41E-WW (External Antenna)

Mist Bluetooth Antenna Array

