

Juniper Mist AP32 Access Point

AI-Driven Wi-Fi 6 Access Point for the Enterprise



Category: Networking — Access Points

Vendor: HPE

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Enterprise-grade Wi-Fi 6 access point delivering up to 3 Gbps combined data rates, managed by the Juniper Mist cloud with built-in AI-driven optimisation, proactive troubleshooting and IoT/BLE support.

Key Features at a Glance

AI-Driven Wi-Fi (Mist AI)

Cloud-native microservices architecture with an AI engine that automates RF optimisation, detects anomalies and drives proactive self-healing.

High-Performance Wi-Fi 6

Six-stream 802.11ax access point with OFDMA, MU-MIMO and BSS Coloring for up to 3 Gbps combined data rates.

Dedicated Third Radio

A dual-band radio dedicated to security scanning, spectrum analysis, synthetic testing and location analytics.

Marvis Virtual Assistant

Natural-language AI assistant for IT helpdesk teams, using data science to identify root causes automatically.

Bluetooth LE & IoT Ready

Integrated BLE 5.0 radio supports asset visibility, superbeacon mode and improved IoT device battery life via TWT.

Zero-Touch Cloud Setup

Automatically connects to the Juniper Mist cloud, downloads its configuration and applies firmware updates with no manual provisioning.

Specifications

Wi-Fi Standard	802.11ax (Wi-Fi 6), OFDMA, 1024-QAM, MU-MIMO, Target Wake Time (TWT)
Combined Data Rate	Up to 3.0 Gbps
2.4 GHz Radio	2x2:2, up to 575 Mbps
5 GHz Radio	4x4:4, up to 2,400 Mbps
Dedicated Third Radio	Dual-band WIDS/WIPS, spectrum analysis, synthetic client & location analytics
Bluetooth	5.0, omnidirectional, iBeacon & Eddystone superbeacon support
Power	802.3at PoE, 802.3bt PoE
Ports	Eth0 100/1000/2.5GBase-T (PoE), Eth1 10/100/1000Base-T, USB 2.0
Dimensions	202 x 202 x 44 mm (7.95 x 7.95 x 1.73 in)
Weight	0.83 kg (1.83 lbs)
Operating Temperature	0°C to 40°C (internal antenna)
Warranty	Limited Lifetime
Management	Juniper Mist Cloud Architecture

Benefits

- Lower Wi-Fi operational costs through AI-driven automation
- Proactive, self-healing network operations
- Unified management via the Juniper Mist cloud
- Backward compatible with 802.11a/b/g/n/ac clients
- Improved IoT device battery life via Target Wake Time
- Built-in security, spectrum and location analytics radio

Typical Applications

Retail

Warehousing

Education

Healthcare & clinics

Branch & home office

Enterprise campus

Common Use Cases

High-density Wi-Fi 6 coverage

AI-driven network troubleshooting

Asset tracking via Bluetooth LE

Guest Wi-Fi with role-based access

IoT device connectivity

Multi-site cloud-managed Wi-Fi

Complete Technical Specification

AI for AX

The 802.11ax (Wi-Fi 6) standard introduces features such as OFDMA and MU-MIMO that make access points more complex to configure and tune correctly. The AP32's AI-driven automation handles data transmission scheduling and client-to-radio assignment automatically, aiming to keep network performance consistent without manual RF tuning.

Juniper Mist Cloud Architecture

The AP32 is managed entirely through the Juniper Mist cloud — a cloud-native microservices platform rather than a traditional on-site wireless controller. Configuration, monitoring and firmware updates are all handled centrally, and the platform's AI engine analyses metadata collected from each access point to surface issues before they affect users.

Automatic RF Optimisation

A dedicated dual-band third radio continuously monitors coverage, capacity and interference — including non-Wi-Fi sources — and feeds this data into automated channel and power assignment. Site-wide rebalancing runs on a rolling 24-hour window to keep the RF environment optimised as conditions change.

Marvis Virtual Assistant

Marvis is a natural-language, conversational troubleshooting assistant built into the Mist platform. Rather than searching through dashboards or CLI output, IT and helpdesk teams can query Marvis directly; it uses AI and data science to identify root causes and the scope of impact for network issues.

Dynamic Packet Capture

When a major issue is detected, the platform automatically captures relevant packets and streams them to the cloud for analysis — removing the need to manually reproduce a fault on-site with a laptop and packet sniffer.

Juniper Mist Edge

Mist Edge is an optional on-premises appliance that terminates tunnelled traffic from Juniper access points. It supports use cases such as seamless roaming across a large campus, tunnelling guest traffic to a DMZ, IoT segmentation and secure teleworker access, while still allowing other traffic to break out locally at the access point.

Bluetooth LE & Asset Visibility

The integrated Bluetooth 5.0 radio supports superbeacon mode (iBeacon and Eddystone) and, combined with Juniper Mist Asset Visibility, can identify and locate tagged assets by name with room-level accuracy, along with historical analytics and telemetry such as temperature and motion.

Access Point Family

The AP32 is part of a wider Juniper Mist access point range, all managed through the same cloud platform:

Series	Wi-Fi Standard	Notes
AP45, AP34	Wi-Fi 6E, 802.11ax	Dedicated fourth radio
AP43, AP12, AP32, AP33, AP63	802.11ax (Wi-Fi 6)	Bluetooth LE and IoT support
AP21, AP41, AP61	802.11ac Wave 2	Bluetooth LE and IoT support
BT11	Bluetooth LE only	Asset visibility beacon

Full Specifications

Item	Detail
Wi-Fi standard	802.11ax (Wi-Fi 6): OFDMA, 1024-QAM, MU-MIMO, TWT, BSS Coloring; backward compatible with 802.11a/b/g/n/ac
Combined highest data rate	3.0 Gbps
2.4 GHz	2x2:2 802.11ax up to 575 Mbps; 2x2:2 802.11b/g/n/ac up to 400 Mbps
5 GHz	4x4:4 802.11ax up to 2,400 Mbps
MIMO operation	4 spatial stream SU-MIMO and MU-MIMO (up to 4 simultaneous MU-MIMO clients)
Dedicated third radio	2.4/5GHz dual-band WIDS/WIPS, spectrum analysis, synthetic client & location analytics
Internal antennas	Two 2.4GHz omni (5 dBi peak); four 5GHz omni (6 dBi peak)
Bluetooth	5.0 omnidirectional, superbeacon mode (iBeacon/Eddystone)
Beamforming	Transmit beamforming and maximal ratio combining
Power	802.3at PoE, 802.3bt PoE
Dimensions	202 x 202 x 44 mm (7.95 x 7.95 x 1.73 in)
Weight	0.83 kg (1.83 lbs), excluding mount and accessories
Operating temperature	Internal antenna: 0° to 40°C; external antenna: -20° to 50°C
Operating humidity	10% to 90%, non-condensing
Operating altitude	3,048 m (10,000 ft)
Trusted Platform Module	Included, for infrastructure security
USB	USB 2.0
Eth0	100/1000Base-T, 2.5GBase-T (802.3bz); RJ45; PoE PD
Eth1	10/100/1000Base-T; RJ45
Reset	Reset to factory default settings
Indicators	One multicolour status LED
Warranty	Limited Lifetime

Why Unified Microsystems?

Unified Microsystems supplies, configures and supports Juniper Mist access points as part of our structured cabling and managed Wi-Fi solutions. We handle site design, Mist cloud onboarding and ongoing support, backed by regional stock availability and lead-time guidance.