

AP3020 Series Access Points

DRAFT

Key Highlights

- Affordable Wi-Fi 7 technology in a compact form factor
- Managed with Extreme Platform ONE™, ExtremeCloud™ IQ and ExtremeCloud IQ Controller
- Extreme Platform ONE Security Policy Enforcement

Radio Technology

Dual-Radio Design

- 2.4 + 5 GHz (2x2:2)
- 5 GHz + 5 GHz (2x2:2)
- 5 GHz and 6 GHz* (2x2:2)
- 2.4 GHz and 6 GHz* (2x2:2)**

Integrated IoT Radios

- Two IoT Radios with Bluetooth Low Energy (BLE), Zigbee, Thread Capabilities

Superior Radio Performance

- Multi-band filter reduces interference and enables 5 GHz and 6 GHz operation across all available channels

Designed for extended temperature environments

- External antenna model with temperature range -20°C to 50°C

Cellular Coexistence Filter (CCF)

- Minimizes the impact of interference from cellular networks

Secure Network Access

- Broad range of authentication modes for all devices from guest to IoT
- Integrated enterprise protection mechanisms including WIPS and VPN

*6 GHz operation is country dependent

** AP3020 only



Indoor Wi-Fi 7 for the Modern Enterprise

The AP3020 and AP3020X bring a new level of agility and performance to enterprise Wi-Fi deployments by harnessing the full capabilities of Wi-Fi 7 in a compact and efficient design. From richer digital experiences to faster application access, the AP3020 series delivers the multi-gigabit ethernet connectivity, low latency, and improved reliability organizations need to support modern users and increasingly connected environments. These access points make next-generation performance accessible for enterprises seeking more value without added complexity.

With two model options, the AP3020 series adapts to nearly any deployment scenario. The AP3020 provides an internal antenna design that blends seamlessly into office, hospitality, retail, and educational settings. The AP3020X delivers external antenna flexibility and extended temperature operation for high density, directional, and specialized environments such as warehouses (with or without climate control), cold and frozen storage facilities, and manufacturing floors. AI-driven cloud management with Extreme Platform ONE™ ensures continuous optimization, proactive monitoring, and simplified operations, helping IT teams maintain a consistently high-quality user experience.

Compact yet powerful, the AP3020 series is designed to support long-term network evolution with enterprise-class security, durable construction, and Universal management platform compatibility. It gives organizations the performance of Wi-Fi 7 with the manageability, efficiency, and adaptability needed to ready their wireless environment for future network demands.

Business Benefits and Outcomes

Improve Operational Efficiency

The AP3020 series of indoor wireless access points (APs) are part of a complete network solution that includes AIOps, Extreme's Universal Wired portfolio and access security. Using powerful 802.11be Wi-Fi 7 technology, this solution allows deployment of high-speed and highly secure Wi-Fi into a broad range of environments including manufacturing, healthcare, enterprise and venues. Operational efficiency is improved through powerful cloud- and on-premises based AI management capabilities offered by Extreme Platform ONE and ExtremeCloud IQ across the wired and wireless infrastructure.

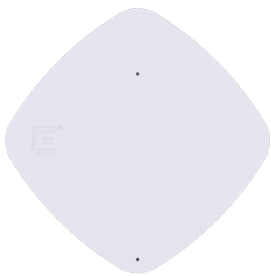
Enhance User Experiences

The enhanced user experience with a Wi-Fi 7 AP3020 access point is marked by high speeds, low latency, and exceptional connectivity, even in dense or complex environments. Leveraging Wi-Fi 7's Extremely High Throughput (EHT) technology, users enjoy faster downloads, smoother streaming, and more responsive real-time applications like video and data intensive tasks.

Models to Suit Customer Needs

The AP3020 Series includes two models, each designed for specific deployment needs:

1. AP3020: features omnidirectional internal antennas, delivering optimal coverage for indoor environments and ideal for carpeted enterprise, healthcare, retail and educational institution deployments.
2. AP3020X: incorporates external antenna connections and extended temperature operation from -20°C to 50°C (-4°F to 122°F), delivering focused coverage for warehouses, logistics and other areas where external antennas and extended temperature support is needed. The AP3020X includes two integral antennas for 6 GHz and two removable dual-band antennas supporting 2.4 and 5 GHz.



AP3020 Omni-directional antenna access point



AP3020X access point with external antennas

Network Management Flexibility

The AP3020 and AP3020X access points can be flexibly managed by Extreme Platform ONE, ExtremeCloud IQ, and ExtremeCloud IQ Controller from the cloud or on premises.

Extreme Platform ONE

[Extreme Platform ONE](#) is the Extreme Networks enterprise connectivity platform that integrates networking and security with AI into one powerful and radically simplified experience and licensing model. It supports NetOps, SecOps, and business teams with built-in automation and enables organizations to regain control, unlock innovation, and boost productivity through:

- One integrated experience that is easy to use
- Automation through built-in AI that boosts productivity, reducing cycle time for many tasks from hours to minutes
- Simplified licensing that makes the solution as easy to buy as it is to use
- AI-powered workflows for configuration, deployment, and management
- Inventory management simplifies budgeting, planning, and compliance

Wi-Fi 7 (802.11be) Technology

Wi-Fi 7 (802.11be) introduces benefits across the 2.4 GHz, 5 GHz, and 6 GHz* bands with reduced latency and jitter for time-sensitive networking applications. Wi-Fi 7 capabilities such as 320 MHz channels, 4K-QAM, and Multi-link Operation (MLO) helps enable superior speeds and high-density performance. The 6 GHz* band enables improved quality of service (QoS) in dense environments, new applications and use cases, and an improved user experience.

*6 GHz operation is country dependent.

Integrated Bluetooth Low Energy

To support both IoT and guest engagement services, the AP3020 series integrates Bluetooth® Low Energy (BLE) to connect with IoT and wireless devices to engage loyalty customers. Enterprises can use API-driven applications to send advertisements directly to shoppers, guests, and conference attendees. This makes it ideal for businesses to advertise their app download pages, captive portals, or site-specific information.

Universal Hardware

The AP3020 series is built with Extreme's Universal Hardware technology, allowing for multiple deployment use cases through a simple change of the software or feature set. This technology allows the user to choose between operating systems tailored to work with cloud- or controller-based management. The desired persona can be selected at startup or changed later. Universal hardware platforms increase flexibility and reduce obsolescence by allowing customers to gradually adopt new technologies without the need for a rip-and-replace approach to their hardware.

Offered with Universal World SKUs, the AP3020 and AP3020X allow organizations to order one model for any region where Extreme Networks products are sold, replacing the problem of country-specific models.

Security

The AP3020 series delivers the highest level of security services, beginning with support for the latest Wi-Fi Alliance WPA3 security certifications. It acts as an enforcement point for [Extreme Platform ONE Security](#)—the industry's most complete network access security solution. Extreme Platform ONE Security provides automated security policy enforcement and manages SSIDs to enforce policies on the AP3020/AP3020X. [Extreme Fabric](#) adds additional security by automating provisioning and deployment by connecting to a Fabric-enabled switch. Additionally, the AP supports a stateful L2-L7 DPI firewall for context-based access security, private pre-share key (PPSK), a location analytics sensor, and much more.

Programmable Dual-Radio AP

The AP3020 series is a dual radio access point and can transmit with two data radios: Depending on the model and radio configuration, 2.4, 5 and 6 GHz are supported. Software programmable radios enable management to provide the highest level of client performance.

Management Analytics

In conjunction with Extreme centralized management software, cloud or on premises, the AP3020 series provides a rich set of data displayed via widgets, representing unlimited historical data or a combination of historical and current data. This provides context-specific granularity with perspective views for locations, network, APs, individual client devices, as well as policy roles. In each context, administrators can make a widget library.

Product Specifications

Radio Specifications

Max Users

- SSID per Radio/Total: 16/32
- Users per Radio/total: 512/1024

802.11a

- 5.150–5.850 GHz Operating Frequency
- Orthogonal Frequency Division Multiplexing (OFDM) Modulation
- Rates (Mbps): 54, 48, 36, 24, 18, 12, 9, 6 w/auto fallback

802.11b

- 2.4–2.5 GHz Operating Frequency
- Direct-Sequence Spread-Spectrum (DSSS) Modulation
- Rates (Mbps): 11, 5.5, 2, 1 w/auto fallback

802.11g

- 2.4–2.5 GHz Operating Frequency
- Orthogonal Frequency Division Multiplexing (OFDM) Modulation
- Rates (Mbps): 54, 48, 36, 24, 18, 12, 9, 6 w/auto fallback

802.11n

- 2.4–2.5 GHz and 5.150–5.850 GHz Operating Frequency
- 802.11n Modulation
- HT20 High-Throughput (HT) Support (2.4 GHz and 5 GHz)
- HT40 High-Throughput (HT) Support for 5 GHz
- A-MPDU and A-MSDU Frame Aggregation
- Rates: MCS0 – MCS15 (6.5 Mbps – 300 Mbps)

802.11ac

- 5.150–5.850 GHz Operating Frequency
- 802.11ac Modulation (256-QAM)
- Rates: MCS0–MCS9 (6.5 Mbps – 1734 Mbps) NSS = 1-2
- 2x2:2 Stream Multiple-In, Multiple-Out (MIMO) Radio
- 20 MHz Channel
- VHT20/VHT40/VHT80
- TxBF (Transmit Beamforming)

802.11ax

- 2.4–2.5GHz: 5.15–5.850, 5.925–7.125 GHz Operating Frequencies
- 802.11ax Modulation (1024-QAM)
- Dual-band OFDMA
- Rates:
 - 6G: HE0-HE11 (8 Mbps – 2400 Mbps)
 - 5G: HE0-HE11 (8 Mbps – 2400 Mbps)
 - 2.4G: HE0-HE11 (8 Mbps – 573.3 Mbps)
- 2x2:2 Stream MIMO Radio@ 6 GHz
- 2x2:2 Stream MIMO Radio@ 5 GHz
- 2x2:2 Stream MIMO Radio@ 2.4 GHz
- HE20/HE40/HE80/HE160 support for 6 GHz
- HE20/HE40/HE80 support for 5 GHz
- HE20/HE40 support for 2.4 GHz
- DL SU-MIMO and MU-MIMO
- TxBF (Transmit Beamforming)

802.11be

- 2.4 GHz–2.5 GHz, 5.15 GHz–5.850 GHz, and 5.925 GHz–7.125 GHz Operating Frequencies
- 802.11be modulation (4096-QAM)
- Rates:
 - 6G: EHT0-EHT13 (8 Mbps–5,765 Mbps)
 - 5G: EHT0-EHT13 (8 Mbps–2,882 Mbps)
 - 2.4G: EHT0-EHT13 (8 Mbps–688 Mbps)
- 2x2:2 stream MIMO radio at 6 GHz
- 2x2:2 stream MIMO radio at 5 GHz
- 2x2:2 stream MIMO radio at 2.4 GHz
- EHT20/EHT40/EHT80/EHT160/EHT320 support for 6 GHz
- EHT20/EHT40/EHT80/EHT160 support for 5 GHz
- EHT20/EHT40 support for 2.4 GHz
- UL/DL SU-MIMO and MU-MIMO
- TxBF (Transmit Beamforming)

IoT Support

- (2) radios for Bluetooth 5.4 Low Energy (BLE), Thread, IEEE 802.15.4

Interfaces

- ETH0: (1) wired Ethernet port (RJ45)
100/1,000/2,500 Mbps autosensing link speed Ethernet port, PoE PD
- 802.3az Energy-Efficient Ethernet (EEE)
- USB 2.0, Type A, 5V/1A

Power Options

- **802.3af PoE power:** Wireless and Ethernet port fully operational; No USB power
- **802.3at PoE power:** Wireless and Ethernet port fully operational. Available USB power: 5W

Power Consumption

- 802.3af Input: Typical 11W, Max 14.5W (without USB load)
- 802.3at Input: Typical 16.5W, Max 20W (with 5W USB Load)

Physical Specifications

Model	Dimensions	Weight
AP3020	6.50" x 6.50" x 1.58" 165 mm x 165 mm x 40 mm	1.41 lbs (0.64 kg)
AP3020X	9.29" x 9.57" x 1.70" 236 mm x 243 mm x 43 mm	1.44 lbs (0.65 kg)

Security

- Kensington Lock
- Trusted Platform Module (TPM)

Mounting

- Wall/Solid Ceiling/15/16" Tbar: AH-ACC-BKT-AX-TB (included in box)
- Beam: ACC-BKT-AX-BEAM
- Junction Box: ACC-BKT-AX-JB
- 1.5" Tbar: ACC-BKT-AX-TBW
- WiNG: ACC-BKT-AX-WNGADAPT
- 9&15/16" Tbar (flat): AH-ACC-BKT-AX-TB
- 9/16 Tbar (w/rail): AH-ACC-BKT-AX-IL
- Silhouette: AH-ACC-BKT-AX-SL
- Standoff (1.25") Wall: AH-ACC-BKT-AX-WL
- 9/16" Protruding Tiles Adapter: AH-ACC-BKT-916-KIT
- 15/16" Protruding Tiles Adapter: ACC-BKT-TB-NF

Environmental

Environmental Specifications

- AP 3020 Operating: 0°C to 50°C (32°F to 122°F);
- AP 3020X Operating: -20°C to 50°C (-4°F to 122°F)
- Storage: -40°C to 70°C (-40°F to 158°F)
- Humidity: 0% to 95% (non-condensing)

Environmental Compliance

- EU RoHS – 2011/65/EU & Amendments (EU) 2015/863
- EU WEEE – 2012/19/EU
- EU REACH – Regulation (EC) No 1907/2006 – Reporting
- EU SCIP – EU Waste Framework Directive
- China RoHS – 2 SJ/T 11364-2014
- Taiwan RoHS CNS 15663 (2013.7)

Regulatory Compliance

Radio Standards USA

- Part 15C – 15.247
- Part 15E – 15.407
- RF exposure – FCC Part 1.1307
- IEC 60601-1-2 EMC for medical devices

Radio Standards Canada

- RSS 247 for 2.4 GHz & 5 GHz
- RSS 248 6 GHz RLAN
- RF exposure – RSS-102: Issue 5, 2015

Radio Standards CE

- 2014/53/EU Radio Equipment Directive
- EN 300 328, EN 301 893, EN 302 502, EN 300 440
- EN301 489 1, EN 301 489 17, EN 62311, EN 62479, EN 303 687

Regulatory and Safety

North American ITE

- UL 60950-1 2nd edition Listed device (U.S.)
- CSA 22.2 No. 60950-1 2nd edition 2014 (Canada)
- UL/CuL 62368-1 Listed
- UL 2043 Plenum rated

European ITE

- EN 62368-1
- 2014/35/EU Low Voltage Directive

International ITE

- CB Report and IEC 62368-1
- AS/NZS 62368-1 (Australia /New Zealand)

EMI/EMC Standards

North American EMC Standards

- FCC CFR 47 part 15 Class B (USA)
- ICES-003 Class B (Canada)


European EMC Standards

- EN 55032 Class B
- EN 55035
- EN 55011, EN 60601-1-2
- EN 61000-3-2: (Harmonics)
- EN 61000-3-3 (Flicker)
- 2014/30/EU EMC Directive

International EMC Certifications

- CISPR 32 Class B (International Emissions)
- AS/NZS CISPR32
- CISPR 35 (International Immunity)

Wi-Fi Alliance Certifications*

Connectivity	Wi-Fi CERTIFIED™ 7 Wi-Fi CERTIFIED™ 6 Release 2 Wi-Fi CERTIFIED™ a, b, g, n, ac Wi-Fi Enhanced Open™	
Optimization	WMM® Wi-Fi Agile Multiband™	
Security	Protected Management Frames WPA™ – Enterprise, Personal WPA2™ – Enterprise, Personal WPA3™ – Enterprise, Personal	

* Certification tests in progress as of publication

Ordering Information

AP3020 SKUs

Product SKU	Description
AP3020-WW	Indoor Dual Radio Wi-Fi 7 (2x2:2): 2.4 GHz and 5 GHz or 5GHz and 6GHz or Dual 5 GHz or 2.4 GHz and 6 GHz, Multi-rate Port, Internal antennas. Dual IoT Radio, Includes AH-ACC-BKT-AX-TB mounting bracket. Domain: World SKU
AP3020-EG	Indoor Dual Radio Wi-Fi 7 (2x2:2): 2.4 GHz and 5 GHz or 5GHz and 6GHz or Dual 5 GHz or 2.4 GHz and 6 GHz, Multi-rate Port, Internal antennas. Dual IoT Radio, Includes AH-ACC-BKT-AX-TB mounting bracket. Domain: Egypt
AP3020-IL	Indoor Dual Radio Wi-Fi 7 (2x2:2): 2.4 GHz and 5 GHz or 5GHz and 6GHz or Dual 5 GHz, or 2.4 GHz and 6 GHz Multi-rate Port, Internal antennas. Dual IoT Radio, Includes AH-ACC-BKT-AX-TB mounting bracket. Domain: Israel
AP3020-WW-TAA	Indoor Dual Radio Wi-Fi 7 (2x2:2): 2.4 GHz and 5 GHz or 5GHz and 6GHz or Dual 5 GHz, or 2.4 GHz and 6 GHz, Multi-rate Port, Internal antennas. Dual IoT Radio, Includes AH-ACC-BKT-AX-TB mounting bracket. Domain: TAA Compliant

AP3020X SKUs

Product SKU	Description	Notes
AP3020X-WW	Indoor Dual Radio Wi-Fi 7 (2x2:2): 2.4 GHz and 5 GHz or 5GHz and 6GHz, or Dual 5 GHz, Multi-rate Port, External antennas. Integral on 6 GHz Dual IoT Radio, Includes AH-ACC-BKT-AX-TB mounting bracket. Domain: World SKU	Includes two ML-2452-APA2-02 Dipole Omni antennas
AP3020X-IL	Indoor Dual Radio Wi-Fi 7 (2x2:2): 2.4 GHz and 5 GHz or 5GHz and 6GHz, or Dual 5 GHz, Multi-rate Port, External antennas. Integral on 6 GHz Dual IoT Radio, Includes AH-ACC-BKT-AX-TB mounting bracket. Domain: Israel	Includes two ML-2452-APA2-02 Dipole Omni antennas
AP3020X-WW-TAA	Indoor Dual Radio Wi-Fi 7 (2x2:2): 2.4 GHz and 5 GHz or 5GHz and 6GHz, or Dual 5 GHz, Multi-rate Port, External antennas. Integral on 6 GHz Dual IoT Radio, Includes AH-ACC-BKT-AX-TB mounting bracket. Domain: TAA Compliant	Includes two ML-2452-APA2-02 Dipole Omni antennas

Mounting Options

Product SKU	Description	Notes
AH-ACC-BKT-AX-TB	Mounting bracket for prelude 15/16" and suprafine 9/16" ceilings and walls. Non-flat ceiling tiles must also use either AH-ACC-BKT-916-KIT or ACC-BKT-TB-NF whichever is applicable.	Ships with AP3020 Can be used for wall - 0.25"
AH-ACC-BKT-AX-WL	Mounting bracket for direct-to-wall installations	Can be used for wall - 1.25"
AH-ACC-BKT-AX-IL	Mounting bracket for interlude ceilings	Up to .33" ceiling tile protrusion
AH-ACC-BKT-AX-SL	Mounting bracket for Armstrong 1/8" and 1/4" main beam silhouette reveal ceiling grids	Up to .33" ceiling tile protrusion
ACC-BKT-AX-JB	Junction box or wall mounting for indoor access points	Gang/Junction Box
ACC-BKT-AX-BEAM	Beam mounting for indoor access points Up to 0.78" thick beam.	
ACC-BKT-AX-TBW	Cloud AP Bracket for 1.5 inch wide T-bars varying in thickness from 3.175mm to 6.35mm	
AH-ACC-BKT-916-KIT	9/16" ceiling mount brackets for Non-Flat/Protruded ceiling tiles - use with AH-ACC-BKT-AX-TB	9/16" Non-Flat/Protruded ceiling tiles
ACC-BKT-TB-NF	Adaptor bracket AH-ACC-BKT-TB for 15/16" Wide T-Bars with Non-Flat/ Protruded ceiling tiles	5/16" Wide T-Bars Non-Flat/Protruded ceiling tiles
ACC-BKT-AX-WNGADAPT	Adaptor bracket for Cloud AP to WiNG Mounting Plate (#372 01). 10 pack	Allow twist mount to mount to legacy mounts

Power Accessories

Product SKU	Description
PD-9001GR-ENT	Single Port 802.3at Compliant Midspan
10033	Pwr Cord,10A,CEE 7/7,IEC320-C13,250V, 0.75MMSQ (for EU and Korea)
10034	Pwr Cord,10A,BS1363,IEC320-C13,250V, 0.75MMSQ (for UK)
10036	Pwr Cord,10A,AS3112,IEC320-C13,250V, 0.75MMSQ (for AU)
10061	Pwr Cord,10A,NEMA 5-15P,IEC320-C13,125V, 18AWG (for US)
10062	Pwr Cord,12A,JISC8303,IEC320-C13,125V, 1.25MMSQ (for Japan)

Warranty

The AP3020 and AP3020X wireless access points are covered under Extreme's Warranty policy. For warranty details, visit: <http://www.extremenetworks.com/support/policies>

Maintenance Services

Extreme's maintenance and support services are provided by in-house engineering experts. We have a rate of over 90% first-person resolution, ensuring efficient operation of your business-essential network.

With 24x7x365 phone support, advanced parts replacement, and on-site support, we augment your staff with expert resources to help you mitigate critical network issues fast. Visit our [Extreme Maintenance Services](#) for more information.

DRAFT – Subject to change until product release

