Data Sheet

AP3020W Access Point

Highlights

- Compact, wall-mount Wi-Fi 7 indoor access point
- Manageable by 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 + 6 GHz* (2x2:2)

Wired Ethernet Connectivity

- One multi-Gigabit Ethernet PoE port
- One Gigabit Ethernet + PSE out port to power IoT devices, cameras, phones, etc.
- Two Gigabit Ethernet ports
- Two RJ45 connected pass-through ports

Integrated IoT Radios

- Two IoT radios with Bluetooth Low Energy (BLE), Zigbee, and Thread capabilities

Superior Radio Performance

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

Cellular Coexistence Filter (CCF)

- Minimizes the impact of interference from cellular networks

Multi-Dwelling Isolation

- Industry-unique Private Client Groups provide microsegmentation for multi-dwelling private networks without complex VLAN management

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 is country dependent.





Enterprise-Level Wall-Plate Wi-Fi 7 with Performance, Simplicity and Scale

The Extreme AP3020W wireless access point delivers a new generation of Wi-Fi 7 wall-plate connectivity, enabling hospitality, K-12, higher education, and multi-dwelling environments to provide faster, more reliable in-room wireless experiences. Its compact, wall-plate design allows organizations to modernize connectivity without altering room layouts, while providing the high capacity and low latency essential for today's learning, guest experience, and digital service applications. This gives business leaders the ability to support more devices, improve operational efficiency, and enhance overall user satisfaction in every room.

Building on the proven foundation of the Extreme wireless portfolio, the AP3020W extends key capabilities such as wired device support, integrated IoT connectivity, and strong in-room RF performance—features already valued in guest rooms, residence halls, and classrooms. It maintains advanced security and segmentation options including Private Client Groups, role-based access, and on-device firewalls, helping organizations reduce risk, protect user privacy, and maintain consistent service quality across high-density deployments. These features translate into tangible business outcomes: simplified operations, reduced troubleshooting time, and improved end-user trust.

With Extreme Platform ONE™ management, enterprises gain centralized visibility, automated optimization, and effortless scale across distributed properties. This unified cloud-driven approach allows IT teams to deploy faster, manage less manually, and maintain predictable performance—resulting in lower operational costs and more consistent guest, student, and staff experiences.

Network Management Flexibility

The AP3020W 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) help 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 AP3020W 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.

Multi-Access Modes

Versatile in-room device delivering connectivity across multiple wired and wireless mediums including Ethernet, Wi-Fi, BLE, and Zigbee. Securely connect all your devices from computers to cameras and game consoles through one convenient access solution.

Universal Hardware

The AP3020W is built with Extreme 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 a Universal World SKU AP, the AP3020W allows organizations to order one model for any region where Extreme Networks products are sold, replacing the problem of country-specific models.

Security

The AP3020W 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 AP3020W. 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 AP3020W is a dual-radio access point and can transmit with two data radios: 2.4 GHz and 5 GHz or 5 GHz and 6 GHz. Software-programmable radios can be managed to help deliver a high level of client performance.

Management Analytics

In conjunction with Extreme centralized management software, cloud or on premises, the AP3020W 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.

6 GHz Spectrum and AFC

The AP3020W access point is designed to support the 6 GHz spectrum with Low Power Indoor (LPI) as well as standard power for the USA and Canada. To enable standard power support, this AP requires additional deployment steps to obtain AFC (Automated Frequency Coordination) authorization, such as external geolocation input and anchor-based location support. To implement 6 GHz with standard power safely and quickly, please refer to the Indoor Access Point 6 GHz Standard Power Deployment Guide for more detailed information.

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–1,734 Mbps) NSS = 1–2
- 2x2:2 Stream Multiple-In, Multiple-Out (MIMO) Radio
- 20 MHz Channel
- VHT20/VHT40/VHT80
- TxBF (Transmit Beamforming)

802.11ax

- 2.4–2.5 GHz, 5.150–5.850 GHz, and 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 at 6 GHz
- 2x2:2 Stream MIMO Radio at 5 GHz
- 2x2:2 Stream MIMO Radio at 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

- 2.4–2.5 GHz, 5.150–5.850 GHz, and 5.925–7.125 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:** 100/1,000/2,500 Mbps autosensing link speed Ethernet port, PoE PD
- **ETH1:** 10/100/1,000 Mbps autosensing link speed Ethernet port, 15.4W PSE out mode (requires 802.3bt on ETH0)
- **ETH2-3:** 10/100/1,000 Mbps autosensing link speed Ethernet ports
- 2 connected RJ45 pass-through ports
- USB 2.0 Type A, 5V/1A (with 802.3at power)
- 802.3az Energy-Efficient Ethernet (EEE)

Power Options

- **802.3af PoE power:** Wireless and Ethernet ports operational. No downlink PoE power. No USB power
- **802.3at PoE power:** Wireless and Ethernet ports fully operational. No downlink PoE power. Available USB power: 5W
- **802.3bt PoE power:** Wireless and Ethernet ports operate at full capacity. Available PSE power on downlink port: 15.4W. Available USB power: 5W

Power Consumption

- 802.3af Input: Typical 11.6W, Max 14.5W
- 802.3at Input: Typical 19W, Max 22W (with 5W USB)
- 802.3bt Input: Typical 35W, Max 38W (with 5W USB and PSE)
- 12 VDC Input: Typical 17W, Max 20W (with 5W USB)

Physical Specifications

Model	Dimensions	Weight
AP3020W	19.9 cm x 12.8 cm x 4.0 cm (7.83 in. x 5.04 in. x 1.57 in.)	0.54 kg (1.19 lb)

Security

- Kensington Lock
- Trusted Platform Module (TPM)

Mounting

- Wall-plate (included with the AP)
- Deskmount (sold as an accessory)

Environmental

Environmental Specifications

- Operating: 0°C to 40°C (32°F to 104°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 and 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 and 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
- EN 301 489-1, 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 CISPR 32
- 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	

Antenna Gain Matrix

Operational Mode	Radio 1	Radio 2	IoT Radio	IoT Radio
1	2.4 GHz – 5.7 dBi	5 GHz – 6.7 dBi	3.5 dBi	4.7 dBi
2	6 GHz – 5.6 dBi	5 GHz – 6.7 dBi	3.5 dBi	4.7 dBi

Power and Sensitivity Tables

Power and Sensitivity – 2.4 GHz Radio

Channel	Data Rate	Power (dBm)	Sensitivity (dBm)
11b	1–11 Mbps	16	-92, -86
11g	6 Mbps	16	-91
	54 Mbps	16	-73
11n HT20	MCS0,7	16, 16	-91, -73
11n HT40	MCS0,7	16, 16	-88, -70
11ax HE20	HE0,11	16, 14	-91, -61
11ax HE40	HE0,11	16, 14	-88, -58
11be EHT20	EHT1,13	16, 12	-91, -55
11be EHT40	EHT1,13	16, 12	-89, -53

Power and Sensitivity – 5 GHz Radio

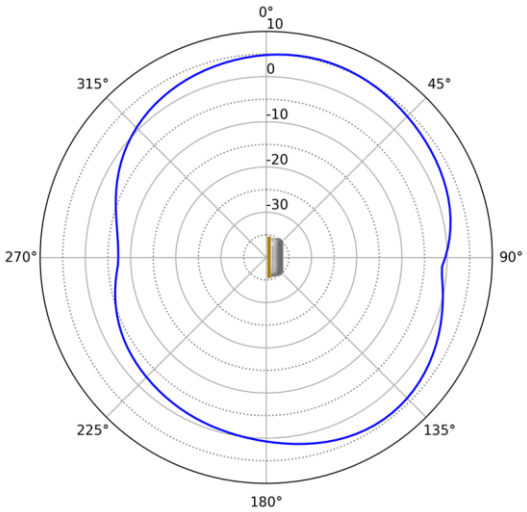
Channel	Data Rate	Power (dBm)	Sensitivity (dBm)
11a	6 Mbps	18	-92
	54 Mbps	16	-74
11n HT20	MCS0,7	18, 16	-92, -74
11n HT40	MCS0,7	18, 16	-90, -72
11ac VHT20	MCS0,8	18, 15	-92, -70
11ac VHT40	MCS0,9	18, 15	-90, -66
11ac VHT80	MCS0,9	18, 15	-88, -64
11ac VHT160	MCS0,9	18, 15	-85, -61
11ax HE20	HE0,11	18, 14	-92, -62
11ax HE40	HE0,11	18, 14	-90, -60
11ax HE80	HE0,11	18, 14	-87, -58
11ax HE160	HE0,11	18, 14	-85, -55
11be EHT20	EHT0,13	18, 12	-92, -56
11be EHT40	EHT0,13	18, 12	-89, -55
11be EHT80	EHT0,13	18, 12	-86, -52
11be EHT160	EHT0,13	18, 12	-84, -49

Power and Sensitivity – 6 GHz Radio

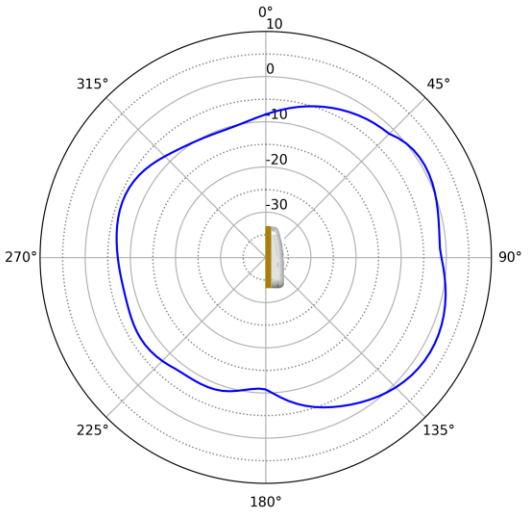
Channel	Data Rate	Power (dBm)	Sensitivity (dBm)
11a	6 Mbps	18	-92
	54 Mbps	16	-73
11n HT20	MCS0,7	18, 16	-92, -73
11n HT40	MCS0,7	18, 16	-90, -71
11ac VHT20	MCS0,8	18, 15	-92, -70
11ac VHT40	MCS0,9	18, 15	-90, -65
11ac VHT80	MCS0,9	18, 15	-88, -63
11ac VHT160	MCS0,9	18, 15	-85, -61
11ax HE20	HE0,11	18, 14	-92, -62
11ax HE40	HE0,11	18, 14	-90, -60
11ax HE80	HE0,11	18, 14	-87, -58
11ax HE160	HE0,11	18, 14	-85, -55
11be EHT20	EHT0,13	18, 12	-92, -55
11be EHT40	EHT0,13	18, 12	-89, -53
11be EHT80	EHT0,13	18, 12	-86, -51
11be EHT160	EHT0,13	18, 12	-84, -48
11be EHT320	EHT0,13	18, 12	-81, -45

Radiation Patterns – AP3020W

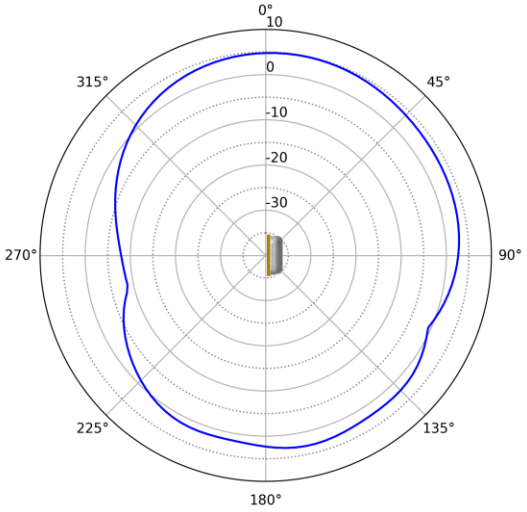
2.4 GHz Azimuth



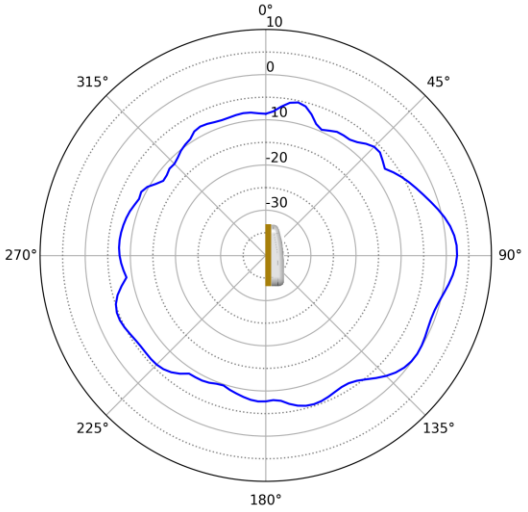
2.4 GHz Elevation



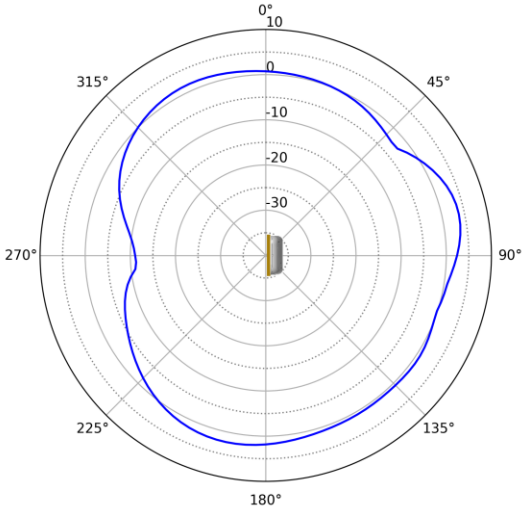
5 GHz Azimuth



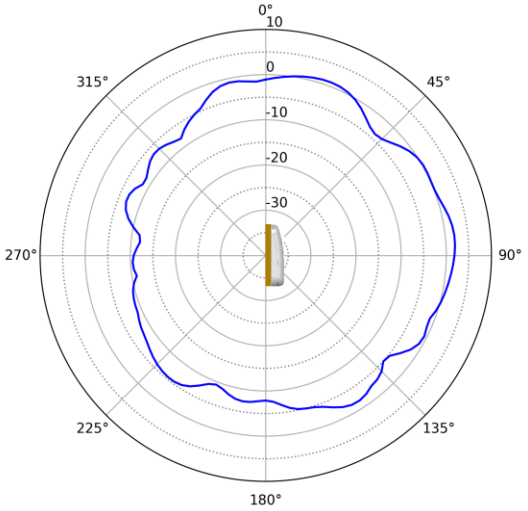
5 GHz Elevation



6 GHz Azimuth

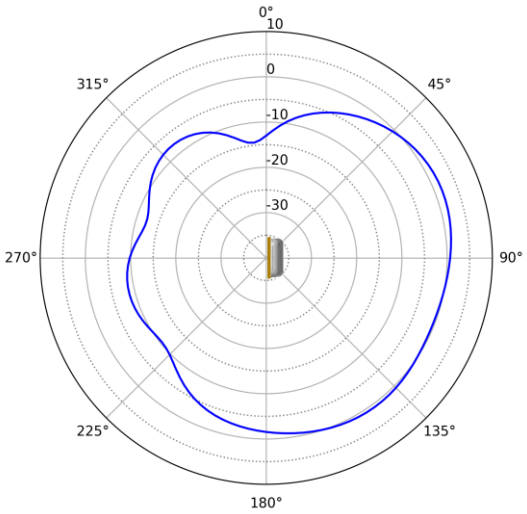


6 GHz Elevation

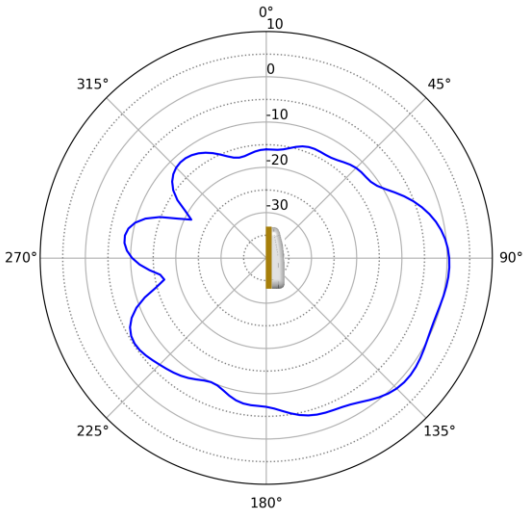


Radiation Patterns – AP3020W – BLE Radios

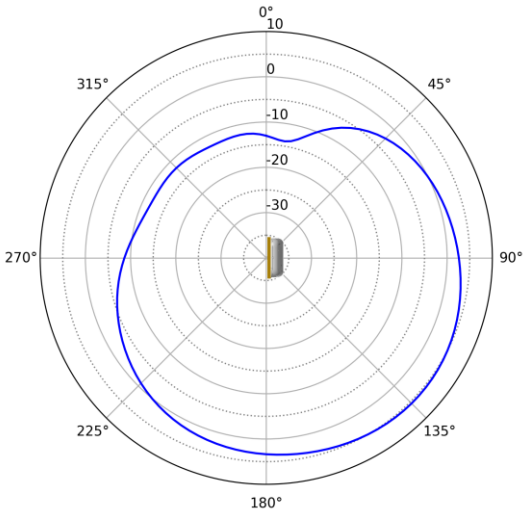
BLE R1 Azimuth



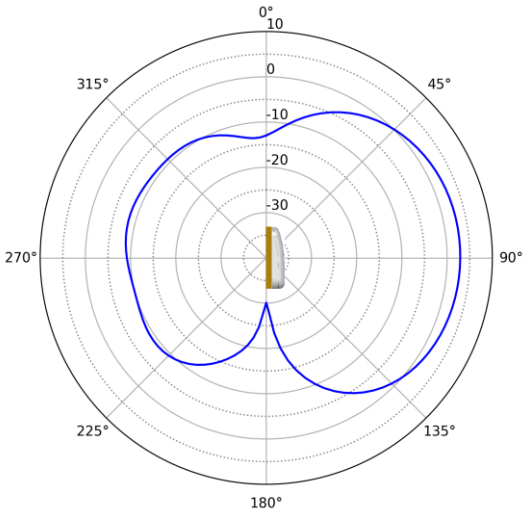
BLE R1 Elevation



BLE R2 Azimuth



BLE R2 Elevation



Ordering Information

AP3020W

Part Number	Description
AP3020W-WW	Indoor Dual Radio Wi-Fi 7 (2x2:2) Wallplate: 2.4 GHz and 5 GHz or 5 GHz and 6 GHz, Multi-rate Port, Internal antennas. Dual IoT Radio, Includes ACC-BKT-WP-AP3020W mounting bracket. Domain: World SKU
AP3020W-IL	Indoor Dual Radio Wi-Fi 7 (2x2:2) Wallplate: 2.4 GHz and 5 GHz or 5 GHz and 6 GHz, Multi-rate Port, Internal antennas. Dual IoT Radio, Includes AH-ACC-BKT-AX-TB mounting bracket. Domain: Israel
AP3020W-EG	Indoor Dual Radio Wi-Fi 7 (2x2:2) Wallplate: 2.4 GHz and 5 GHz or 5 GHz and 6 GHz, Multi-rate Port, Internal antennas. Dual IoT Radio, Includes AH-ACC-BKT-AX-TB mounting bracket. Domain: Egypt
AP3020W-WW-TAA	Indoor Dual Radio Wi-Fi 7 (2x2:2) Wallplate: 2.4 GHz and 5 GHz or 5 GHz and 6 GHz, Multi-rate Port, Internal antennas. Dual IoT Radio, Includes AH-ACC-BKT-AX-TB mounting bracket. Domain: World SKU, TAA Compliant

Mounting Options

Part Number	Description
ACC-BKT-DESKSTD-AP3020W	Wi-Fi 7 AP3020W desk mount stand – including screws
ACC-BKT-WP-AP3020W	Wi-Fi 7 AP3020W Wall and Junction Box Stainless Steel mounting bracket (in box accessory sold as a spare)

Power Accessories

Part Number	Description
PD-3501G-ENT	Single Port 802.3af Midspan Device
PD-9001GR-ENT	Single Port 802.3at Compliant Midspan
37219	PWR 12VDC, 3A, 2.5 mm x 5.5 mm connector (PoE power is required for PSE/PoE-out)

Other Accessories

Part Number	Description
ACC-WIFI-MICRO-USB	Micro-USB to USB Console Adapter Cable for Extreme Wireless Access Points

Warranty

The AP3020W wireless access point is covered under Extreme's Warranty policy. For warranty details, visit our Policies and Warranties page.

Support Services

Extreme offers a portfolio of services that adapts to your unique environment and technical support needs. Globally available technical support and professional services from our in-house team of experts provide the resiliency and optimization that accelerate your business and innovation.

Combined with Extreme Platform ONE agentic support tools and workflows, Extreme Services helps you to anticipate issues and identify risks before they impact your business. For more information, visit our Services page.

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