

AP5022 Series Access Points

Key Highlights

- Wi-Fi 7 technology – high throughput, low latency, and extended range
- Manageable by Extreme Platform ONE™/ExtremeCloud™ IQ Controller
- Extreme Platform ONE Security policy enforcement, Fabric integration

Models

- AP5022 – Internal omnidirectional antennas
- AP5022S6D – 60° internal directional antennas
- AP5022FX* – external antenna connectivity and extended temp range

Advanced Radio Technology

Quad-Radio Design

- 2.4 GHz (4x4:4)
- 5 GHz (4x4:4)
- 6 GHz (4x4:4)**
- Dedicated Tri-band 2x2 Sensor

Integrated IoT Radios

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

Operational Modes

- 2.4 GHz/5 GHz 6 GHz + tri-band sensor
- 5 GHz/5 GHz/6 GHz + tri-band sensor
- 6 GHz/5 GHz/6 GHz + tri-band sensor

Cellular Coexistence Filter (CCF)

- Minimizes the impact of interference from cellular networks

Power

- Fully Functional with 802.3bt
- Functionality with 802.3at
- Built-in PoE Failover or PSE (PoE Out)

* Country-based availability

**6 GHz is country-dependent



Flexible, Highly Secure and Cloud-Managed Wi-Fi 7 Indoor Access Point

The AP5022 series of premium-tier Wi-Fi 7 indoor access points (AP) deliver enhanced wireless experiences, faster speeds, and a range of use cases. This AP is built on Extreme's Universal Hardware Platform technology, enabling deployment flexibility, and it leverages [Extreme Platform ONE™](#) AI Ops management to provide improved user experiences.

The AP5022 series of Wi-Fi 7 APs, with three 4x4:4 radios, provides high-efficiency, high-performance 802.11be aggregate data rates of up to 20 Gbps in the 6 GHz, 5 GHz, and 2.4 GHz bands. Designed for high-density environments, such as schools, warehouses, healthcare facilities, and stadiums, the AP5022 is powerful and intelligent enough to provide the highest level of client services without compromising security. The AP5022 operates with fully featured performance capabilities using 802.3bt PoE, simplifying power capacity planning.

With more users, more devices, more applications, and more threats straining the infrastructure, the AP5022 was engineered to meet those challenges. The AP5022 combines powerful 802.11be Wi-Fi 7 technology, advanced security, and AI Ops management capabilities together as an enterprise-class solution that allows you to deploy high speed, highly secure Wi-Fi into high-density environments.

Unlike other APs that scan only part time, the AP5022 features a dedicated 2x2 tri-band sensor that monitors rogue devices full time, eliminating the risk of vulnerability and attacks. This tri-radio AP is capable of multiple operational modes, optimizing for maximum performance and security, and features additional dual IoT radios, removing complexity by supporting multiple simultaneous IoT use cases.

Business Benefits and Outcomes

Improve Operational Efficiency

The AP5022 series of indoor access points are part of a complete wired and wireless solution that includes AI, 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 high-density venues. Operational efficiency is improved through powerful cloud-based management capabilities offered by Extreme Platform ONE or ExtremeCloud IQ across the wired and wireless infrastructure.

Reduce Risk

With more users, more devices, more applications, and more threats straining the network, the AP5022 is engineered to meet these performance and security challenges. Unlike other APs that scan only part time, the AP5022 features a dedicated tri-band sensor that monitors rogue devices full time, eliminating the risk of vulnerability and attacks. The AP5022, as part of the Extreme Universal Wireless portfolio, allows the user to change an operating system use case without changing the hardware, providing deployment flexibility.

Enhance User Experiences

The enhanced user experience with AP5022 series is marked by ultra-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 conferencing and data intensive tasks.

Models to Suit Customer Needs

The AP5022 series includes three models, each designed for specific deployment needs:

- AP5022: features omnidirectional internal antennas, delivering optimal coverage for high-density environments such as carpeted enterprise offices, healthcare facilities, and retail spaces.
- AP5022S6D: incorporates 60° directional internal antennas, delivering focused coverage for environments such as warehouses, manufacturing facilities, and logistics operations.
- AP5022FX: offers external antenna connections and extended temperature range -20°C to 50°C (-4°F to 122°F) support, enabling flexible antenna choices to support diverse environments such as carpeted enterprise spaces, arenas, lecture halls, warehouses, and manufacturing facilities.



AP5022 with omnidirectional antennas



AP5022S6D with internal 60° directional antennas



AP5022FX with external antenna connectivity

Network Management Options

The AP5022 series can be flexibly managed by Extreme Platform ONE or ExtremeCloud IQ from the cloud or on premises.

Extreme Platform ONE™

[Extreme Platform ONE](#) is an 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.

*Country dependent

Software-Defined Radios

The AP5022 series features the industry's first software-defined Wi-Fi 7 AP that supports not only dual 5 GHz and dual 6 GHz capabilities, but also an additional software-programmable mode to optimally manage radios to provide the highest level of client performance. The AP5022 is a tri-radio AP that can transmit with multiple combinations of three data radios across the 2.4 GHz, 5 GHz, and 6 GHz bands in addition to a dedicated tri-band sensor.

The AP5022 intelligently monitors the software-configurable radios, enabling network managers to configure network RF technology based on the user environment and to configure the APs in different modes as required. The AP5022 features superior tri-band radio performance with a multiband filter that reduces interference and enables 5 GHz and 6 GHz operation across all available channels without restrictions.

Modern IoT Platform

The AP5022 series features dual IoT radios enabling multiple concurrent IoT use cases and eliminates the need for an overlay infrastructure with improved performance and reduced complexity of multiple wireless networks. It is also hardware ready to support Ultra-wideband (UWB) for cm-level accuracy with indoor location services.

To support both IoT and guest engagement services, the AP5022 integrates Bluetooth® Low Energy (BLE) to connect with IoT devices wirelessly and to engage customers with Apple iBeacon. Enterprises can use API-driven applications to send ads directly to shoppers, guests, and conference attendees. This makes it ideal for businesses to advertise their app, download pages, deliver captive portals, or share site-specific information.

Universal Hardware

The AP5022 series is built with Extreme's Universal Hardware technology that allows 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 SKUs, the AP5022 series APs allow customers, partners, and distributors to order one model for any region where Extreme Networks products are sold, replacing the problem of country-specific models.

Security

The AP5022 series APs deliver 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 AP5022 APs. [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, tri-band security, a location analytics sensor, and much more.

The AP5022 series also includes a unique dedicated security sensor for rich insights and threat detection when paired with [AirDefense Essentials](#), which is part of an Extreme Platform ONE license.

Product Specifications

Radio Specifications

Max Users

SSID per radio/total: 16/48
Users per radio/total: 512/1536

802.11a

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

802.11n

2.4 GHz–2.5 GHz and 5.150–5.850 GHz Operating Frequency
802.11n Modulation
HT20 High-Throughput (HT) support (for both 2.4 GHz and 5 GHz) HT40 High-Throughput (HT) support for 5 GHz
A-MPDU and A-MSDU Frame Aggregation
Rates: MCS0 – MCS31 (6.5 Mbps – 600 Mbps)

802.11ac

5.150 GHz–5.850 GHz Operating Frequency
802.11ac Modulation (256-QAM)
5G: 4x4 Multiple-In, Multiple-Out (MIMO) Radio
2.4G: 4x4 Multiple-In, Multiple-Out (MIMO) Radio
Rates: MCS0–MCS9 (6.5 Mbps – 3,466 Mbps) NSS = 1–4
4x4:4 Stream Multiple-In, Multiple-Out (MIMO) Radio
VHT20/VHT40/VHT80/VHT160
TxBF (Transmit Beamforming)

802.11ax

2.4 GHz–2.5 GHz, 5.15 GHz–5.850 GHz and 5.925 GHz–7.125 GHz Operating Frequencies
802.11ax Modulation (1024-QAM)
Dual-band OFDMA
Rates:

- 6G: HE0-HE11 (8 Mbps– 9,600 Mbps)
- 5G: HE0-HE11 (8 Mbps– 4,800 Mbps)
- 2.4G: HE0-HE11 (8 Mbps– 1,148 Mbps)

4x4:4 Stream MIMO Radio at 6 GHz
4x4:4 Stream MIMO Radio at 5 GHz
4x4:4 Stream MIMO Radio at 2.4 GHz
HE20/HE40/HE80/HE160/HE320 support for 6 GHz
HE20/HE40/HE80/HE160 support for 5 GHz
HE20/HE40 support for 2.4 GHz
UL/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–11,500 Mbps)
- 5G: EHT0-EHT13 (8 Mbps–5,700 Mbps)
- 2.4G: EHT0-EHT13 (8 Mbps–1,300 Mbps)

4x4:4 stream MIMO radio at 6 GHz
4x4:4 stream MIMO radio at 5 GHz
4x4:4 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) IoT radios for Thread, Zigbee®, Bluetooth Low Energy (BLE) 5.4, IEEE 802.15.4 Ultra-wideband (UWB) ready

Interfaces

ETH0, ETH1: (2) wired Ethernet ports (RJ45)
ETH0: 100/1,000/2,500/5,000/10,000 Mbps autosensing link speed Ethernet port, PoE PD, MACsec (802.1AE)
ETH1: 100/1,000/2,500/5,000/10,000 Mbps autosensing link speed Ethernet port, PoE PD in or 15.4W PSE out mode (requires 802.3bt on Eth0)
802.3az Energy-Efficient Ethernet (EEE)
USB 2.0, Type A, 5V/1,000mA with PoE 802.3bt

Power Options

Power draw: 802.3at PoE: typical 21W, max. 25.5W (802.3at profile) without PoE out or USB
Power draw: 802.3bt PoE: typical 26W without USB, max 38W with 5W USB, 32W without USB
12V DC/3A. DC power has priority when both DC and PoE power sources are available

Physical Specifications

Model	Dimensions	Weight
AP5022	10.16" x 10.16" x 1.81" (258 mm x 258 mm x 46 mm)	1.62 kg (3.57 lbs.)
AP5020S6D	10.16" x 10.16" x 1.81" (258 mm x 258 mm x 46 mm)	1.53 kg (3.37 lbs.)
AP5022FX	10.16" x 10.43" x 1.81" (258 mm x 265 mm x 46 mm)	1.53 kg (3.37 lbs.)

Mounting

AP support 15/16 in. flush ceiling tile included in the box
Wall mount included in the box or sold as an accessory
Sculpted ceiling tile 15/16 in. wide t-bar sold as an accessory
Sculpted ceiling tile 9/16 in. wide t-bar sold as an accessory
Beam sold as an accessory
Junction box sold as an accessory
IL or 9/16 in. t-bar sold as an accessory
SL (Silhouette) sold as an accessory
WiNG main plate adaptor sold as an accessory
Built-in slot for Kensington

Security

- Kensington lock slot
- Trusted Platform Module (TPM)

Environmental

Environmental Specifications

- AP5022 Operating: 0°C to 50°C (32°F to 122°F)
- AP5022S6D Operating: 0°C to 50°C (32°F to 122°F)
- AP5022FX Operating: -20°C to 50°C (-4°F to 122°F)
- Storage: 0°C to 70°C (32°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
- Part 15F – 15.1517 UWB
- RF exposure – FCC Part 1.1307
- IEC 60601-1-2 EMC for medical devices

Radio Standards Canada

- RSS 247 for 2.4 GHz and 5GHz
- 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 303 687, EN 300 440
- EN 301 489 1, EN 301 489 17, EN 62311, EN 50385
- EN 18031-1 Cybersecurity

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)
- U/CuL 62368-1 Listed
- UL 2043 Plenum rated

European ITE

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

International ITE

- IEC 60950-1 + National Differences
- CB IEC 62368-1 2nd Edition + National Differences
- CB IEC 62368-1 1st and 3rd Editions + National Differences
- AS/NZS 62368-1-1 (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)
- CISPR 11
- 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

Antenna Gain Matrix

Max Antenna Gain – AP5022

Operational Mode	Radio 1	Radio 2	Radio 3	Scan Radio	IoT Radio 1	IoT Radio 2
1	2.4 GHz – 3.5 dBi	5 GHz – 6.7 dBi	6 GHz – 5.7 dBi	2.4 GHz – 3.1 dBi 5 GHz – 4.7 dBi 6 GHz – 6.1 dBi	5.4 dBi	4.0 dBi
2	5 GHz – 5.3 dBi	5 GHz – 6.7 dBi	6 GHz – 5.7 dBi	2.4 GHz – 3.1 dBi 5 GHz – 4.7 dBi 6 GHz – 6.1 dBi	5.4 dBi	4.0 dBi
3	6 GHz – 5.1 dBi	5 GHz – 6.7 dBi	6 GHz – 5.7 dBi	2.4 GHz – 3.1 dBi 5 GHz – 4.7 dBi 6 GHz – 6.1 dBi	5.4 dBi	4.0 dBi

Max Antenna Gain – AP5022S6D

Operational Mode	Radio 1	Radio 2	Radio 3	Scan Radio	IoT Radio 1	IoT Radio 2
1	2.4 GHz – 3.5 dBi	5 GHz – 7.0 dBi	6 GHz – 7.2 dBi	2.4 GHz – 3.3 dBi 5 GHz – 4.7 dBi 6 GHz – 5.8 dBi	4.8 dBi	4.2 dBi
2	5 GHz – 6.7 dBi	5 GHz – 7.0 dBi	6 GHz – 7.2 dBi	2.4 GHz – 3.3 dBi 5 GHz – 4.7 dBi 6 GHz – 5.8 dBi	4.8 dBi	4.2 dBi
3	6 GHz – 6.5 dBi	5 GHz – 7.0 dBi	6 GHz – 7.2 dBi	2.4 GHz – 3.3 dBi 5 GHz – 4.7 dBi 6 GHz – 5.8 dBi	4.8 dBi	4.2 dBi

Power and Sensitivity Tables

Power and Sensitivity – 2.4 GHz Radio

Channel	Data Rate	Power (dBm)	Sensitivity (dBm)
11b	1 – 11 Mbps	18	-93, -87
11g	6 Mbps	18	-93
	54 Mbps	16	-75
11n HT20	MCSO,7	18, 16	-93, -75
11n HT40	MCSO,7	18, 16	-90, -72
11ax HE20	HEO,11	18, 14	-93, -63
11ax HE40	HEO,11	18, 14	-90, -60
11be EHT20	EHT1,13	18, 12	-92, -58
11be EHT40	EHT1,13	18, 12	-89, -55

2.4 GHz Radio – Sensor

Channel	Data Rate	Power (dBm)	Sensitivity (dBm)
11b	1 – 11 Mbps	18	-94, -88
11g	6 Mbps	18	-94
	54 Mbps	16	-76
11n HT20	MCSO,7	18, 16	-94, -76
11n HT40	MCSO,7	18, 16	-91, -73
11ax HE20	HEO,11	18, 14	-94, -65
11ax HE40	HEO,11	18, 14	-91, -62
11be EHT20	EHT1,13	18, 12	-94, -59
11be EHT40	EHT1,13	18, 12	-91, -56

Power and Sensitivity – 5 GHz Full Radio

Channel	Data Rate	Power (dBm)	Sensitivity (dBm)
11a	6 Mbps	18	-93
	54 Mbps	16	-73
11n HT20	MCSO,7	18, 16	-93, -73
11n HT40	MCSO,7	18, 16	-91, -71
11ac VHT20	MCSO,8	18, 15	-92, -70
11ac VHT40	MCSO,9	18, 15	-90, -65
11ac VHT80	MCSO,9	18, 15	-88, -63
11ac VHT160	MCSO,9	17, 14	-85, -61
11ax HE20	HEO,11	18, 14	-92, -62
11ax HE40	HEO,11	18, 14	-90, -60
11ax HE80	HEO,11	18, 14	-87, -58
11ax HE160	HEO,11	17, 13	-85, -55
11be EHT20	EHTO,13	18, 12	-92, -55
11be EHT40	EHTO,13	18, 12	-89, -53
11be EHT80	EHTO,13	18, 12	-86, -50
11be EHT160	EHTO,13	17, 12	-84, -47

Power and Sensitivity – 5 GHz Radio - High

Channel	Data Rate	Power (dBm)	Sensitivity (dBm)
11a	6 Mbps	17	-92
	54 Mbps	15	-73
11n HT20	MCSO,7	17, 15	-92, -73
11n HT40	MCSO,7	16, 15	-90, -71
11ac VHT20	MCSO,8	17, 14	-92, -70
11ac VHT40	MCSO,9	16, 14	-90, -65
11ac VHT80	MCSO,9	16, 14	-88, -63
11ac VHT160	MCSO,9	16, 14	-85, -61
11ax HE20	HEO,11	17, 13	-92, -62
11ax HE40	HEO,11	16, 13	-89, -60
11ax HE80	HEO,11	16, 13	-87, -58
11ax HE160	HEO,11	16, 13	-85, -56
11be EHT20	EHTO,13	17, 12	-91, -55
11be EHT40	EHTO,13	16, 12	-88, -53
11be EHT80	EHTO,13	16, 12	-85, -50
11be EHT160	EHTO,13	16, 12	-82, -48

Power and Sensitivity – 5 GHz Radio - Low

Channel	Data Rate	Power (dBm)	Sensitivity (dBm)
11a	6 Mbps	17	-93
	54 Mbps	15	-74
11n HT20	MCSO,7	17, 15	-93, -74
11n HT40	MCSO,7	16, 15	-91, -71
11ac VHT20	MCSO,8	17, 14	-93, -70
11ac VHT40	MCSO,9	16, 14	-91, -66
11ac VHT80	MCSO,9	16, 14	-88, -63
11ac VHT160	MCSO,9	15, 14	-85, -61
11ax HE20	HEO,11	17, 13	-93, -62
11ax HE40	HEO,11	16, 13	-91, -60
11ax HE80	HEO,11	16, 13	-87, -58
11ax HE160	HEO,11	15, 13	-85, -56
11be EHT20	EHTO,13	17, 12	-92, -56
11be EHT40	EHTO,13	16, 12	-91, -54
11be EHT80	EHTO,13	16, 12	-86, -51
11be EHT160	EHTO,13	15, 12	-84, -48

Power and Sensitivity – 5 GHz Radio – Sensor

Channel	Data Rate	Power (dBm)	Sensitivity (dBm)
11a	6 Mbps	18	-95
	54 Mbps	16	-75
11n HT20	MCSO,7	18, 16	-95, -75
11n HT40	MCSO,7	18, 16	-92, -73
11ac VHT20	MCSO,8	18, 15	-95, -72
11ac VHT40	MCSO,9	18, 15	-92, -67
11ac VHT80	MCSO,9	18, 15	-90, -65
11ac VHT160	MCSO,9	17, 14	-87, -63
11ax HE20	HEO,11	18, 14	-95, -64
11ax HE40	HEO,11	18, 14	-92, -62
11ax HE80	HEO,11	18, 14	-89, -60
11ax HE160	HEO,11	17, 13	-87, -57
11be EHT20	EHTO,13	18, 12	-95, -57
11be EHT40	EHTO,13	18, 12	-91, -55
11be EHT80	EHTO,13	18, 12	-88, -52
11be EHT160	EHTO,13	17, 12	-86, -49

Power and Sensitivity – 6 GHz Full Radio

Channel	Data Rate	Power (dBm)	Sensitivity (dBm)
11a	6 Mbps	17	-92
	54 Mbps	16	-73
11n HT20	MCS0,7	17, 16	-92, -73
11n HT40	MCS0,7	17, 16	-90, -71
11ac VHT20	MCS0,8	17, 15	-92, -69
11ac VHT40	MCS0,9	17, 15	-90, -65
11ac VHT80	MCS0,9	17, 15	-87, -62
11ac VHT160	MCS0,9	15, 15	-85, -59
11ax HE20	HEO,11	17, 14	-92, -62
11ax HE40	HEO,11	17, 14	-90, -59
11ax HE80	HEO,11	17, 14	-87, -56
11ax HE160	HEO,11	15, 14	-85, -53
11be EHT20	EHT0,13	17, 12	-92, -56
11be EHT40	EHT0,13	17, 12	-90, -54
11be EHT80	EHT0,13	17, 12	-87, -51
11be EHT160	EHT0,13	15, 12	-84, -48
11be EHT320	EHT0, 13	15, 12	-81, -45

Power and Sensitivity – 6 GHz Radio - High

Channel	Data Rate	Power (dBm)	Sensitivity (dBm)
11a	6 Mbps	16	-91
	54 Mbps	15	-73
11n HT20	MCS0,7	16, 15	-91, -73
11n HT40	MCS0,7	16, 15	-89, -70
11ac VHT20	MCS0,8	16, 14	-91, -69
11ac VHT40	MCS0,9	15, 14	-89, -65
11ac VHT80	MCS0,9	15, 14	-86, -62
11ac VHT160	MCS0,9	14, 13	-83, -59
11ax HE20	HEO,11	16, 13	-91, -62
11ax HE40	HEO,11	15, 13	-89, -59
11ax HE80	HEO,11	15, 13	-86, -56
11ax HE160	HEO,11	14, 13	-83, -53
11be EHT20	EHT0,13	16, 12	-91, -55
11be EHT40	EHT0,13	15, 12	-89, -52
11be EHT80	EHT0,13	15, 12	-86, -49
11be EHT160	EHT0,13	14, 12	-83, -47

Power and Sensitivity – 6 GHz Radio - Low

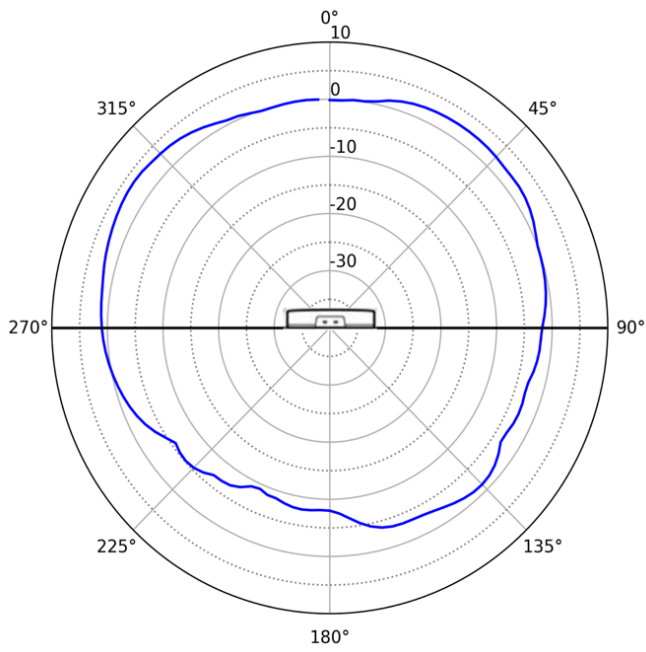
Channel	Data Rate	Power (dBm)	Sensitivity (dBm)
11a	6 Mbps	17	-92
	54 Mbps	15	-73
11n HT20	MCS0,7	17, 15	-92, -73
11n HT40	MCS0,7	16, 15	-89, -70
11ac VHT20	MCS0,8	17, 14	-92, -69
11ac VHT40	MCS0,9	16, 14	-89, -65
11ac VHT80	MCS0,9	16, 14	-86, -62
11ac VHT160	MCS0,9	15, 14	-83, -59
11ax HE20	HEO,11	17, 13	-92, -62
11ax HE40	HEO,11	16, 13	-89, -59
11ax HE80	HEO,11	16, 13	-86, -56
11ax HE160	HEO,11	15, 13	-83, -53
11be EHT20	EHT0,13	17, 12	-91, -55
11be EHT40	EHT0,13	16, 12	-89, -52
11be EHT80	EHT0,13	16, 12	-86, -49
11be EHT160	EHT0,13	15, 12	-83, -47
11be EHT320	EHT0, 13	15, 12	-80, -45

Power and Sensitivity – 6 GHz Radio - Sensor

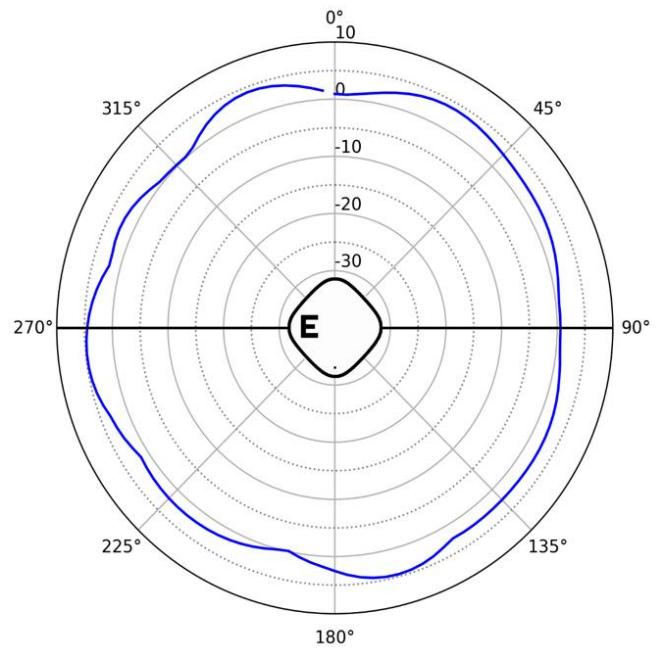
Channel	Data Rate	Power (dBm)	Sensitivity (dBm)
11a	6 Mbps	18	-93
	54 Mbps	16	-75
11n HT20	MCS0,7	18, 16	-93, -74
11n HT40	MCS0,7	18, 16	-91, -72
11ac VHT20	MCS0,8	18, 15	-93, -70
11ac VHT40	MCS0,9	18, 15	-91, -66
11ac VHT80	MCS0,9	18, 15	-88, -63
11ac VHT160	MCS0,9	17, 14	-86, -60
11ax HE20	HEO,11	18, 14	-93, -63
11ax HE40	HEO,11	18, 14	-91, -60
11ax HE80	HEO,11	18, 14	-88, -57
11ax HE160	HEO,11	17, 13	-86, -55
11be EHT20	EHT0,13	18, 12	-93, -58
11be EHT40	EHT0,13	18, 12	-91, -55
11be EHT80	EHT0,13	18, 12	-88, -52
11be EHT160	EHT0,13	17, 12	-86, -50
11be EHT320	EHT0, 13	17, 12	-83, -48

AP5022 Radiation Patterns

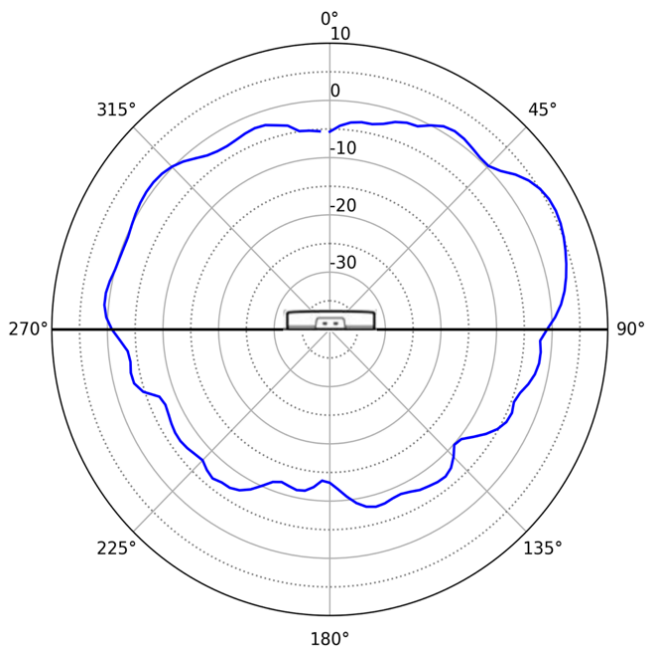
2G Elevation



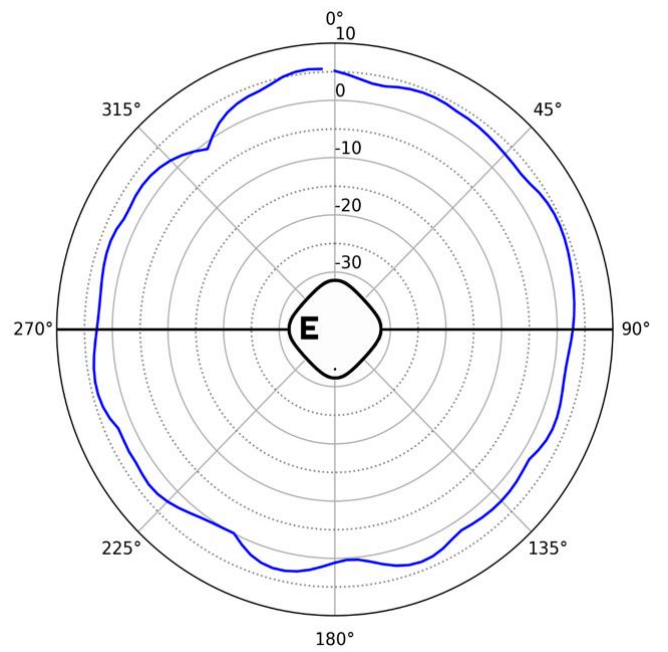
2G Azimuth



5G Elevation

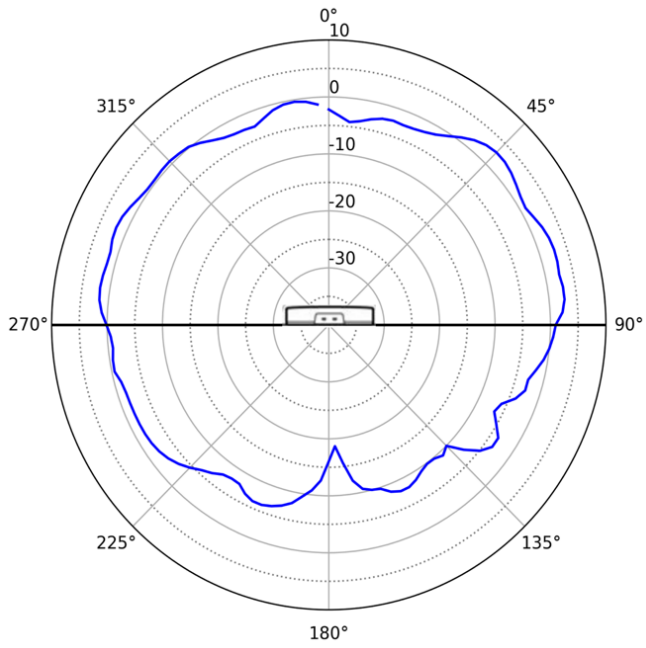


5G Azimuth

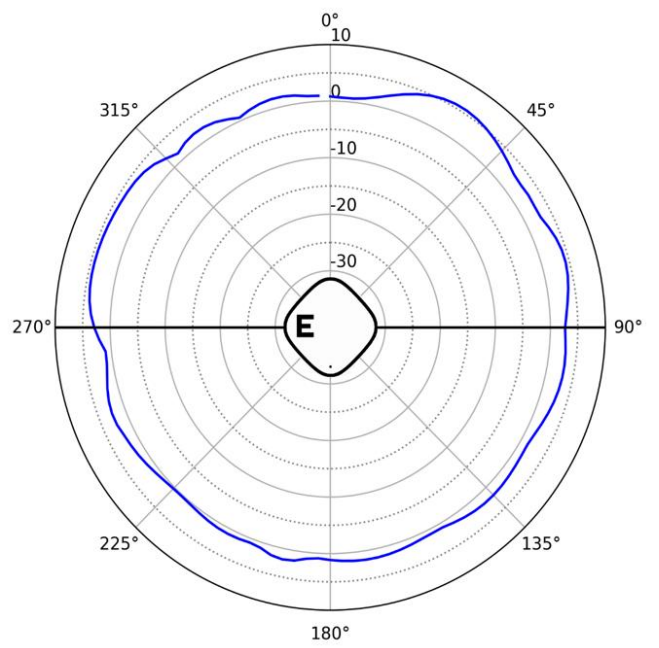


AP5022 Radiation Patterns

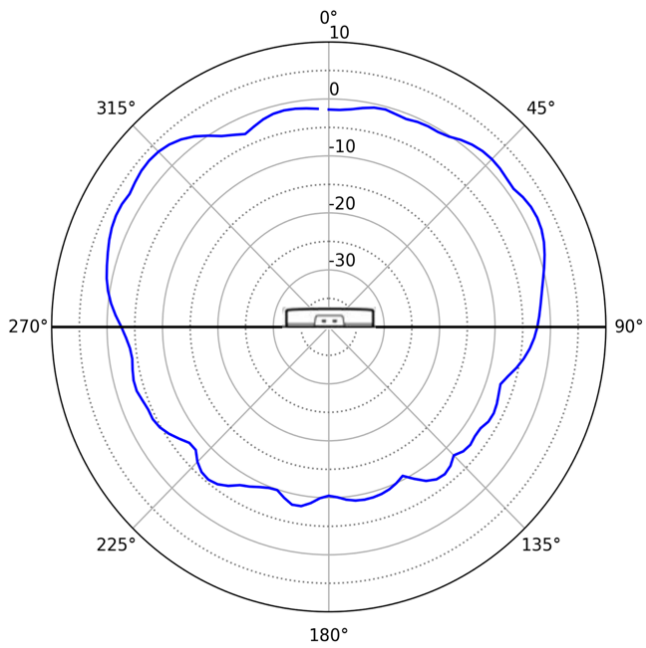
6G Elevation



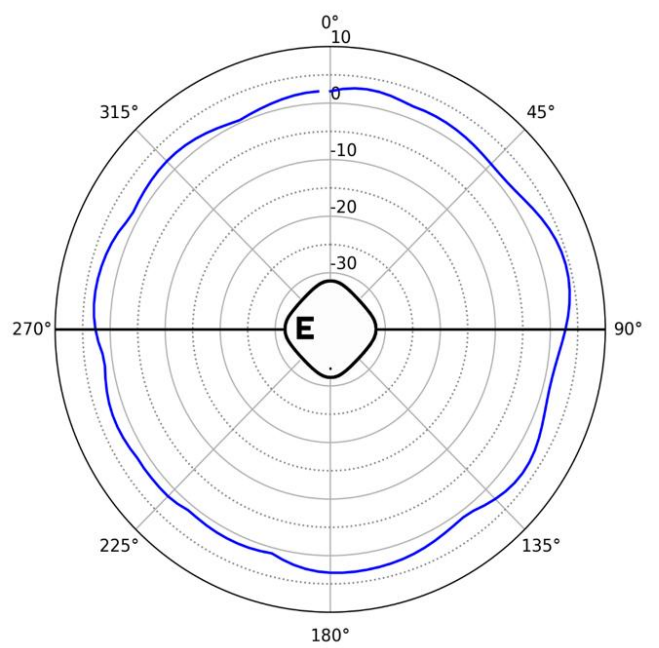
6G Azimuth



5G Low Elevation

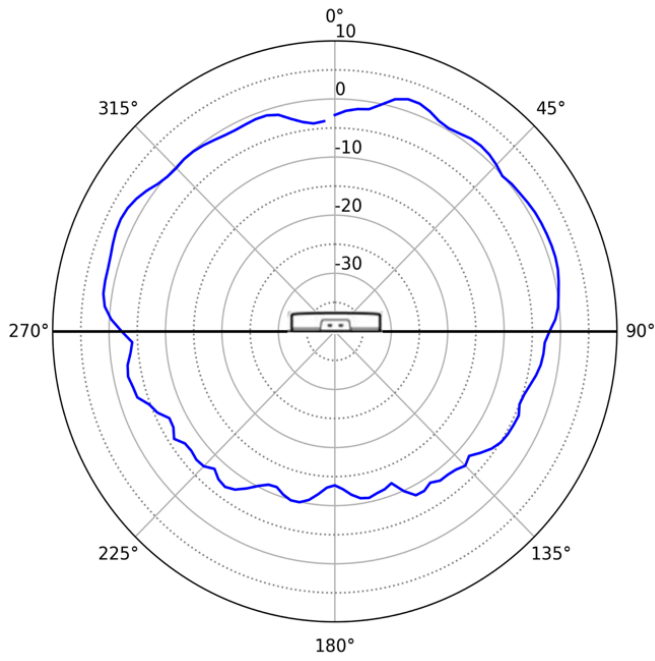


5G Low Azimuth

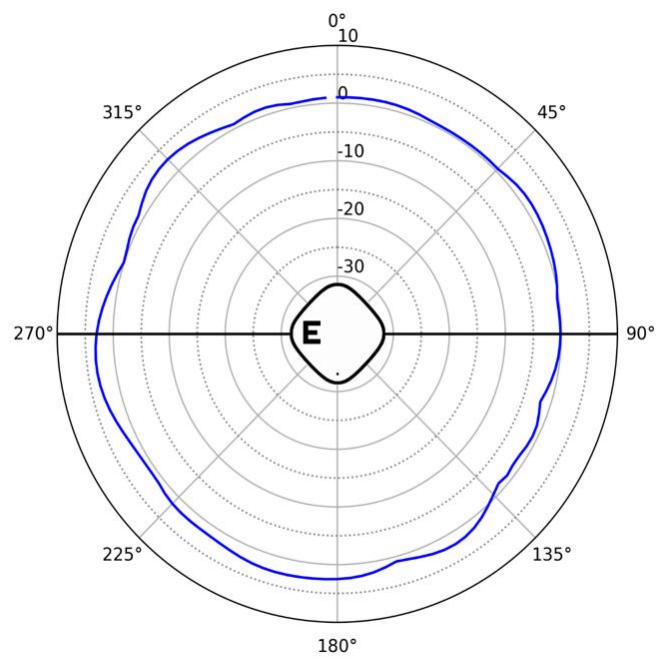


AP5022 Radiation Patterns

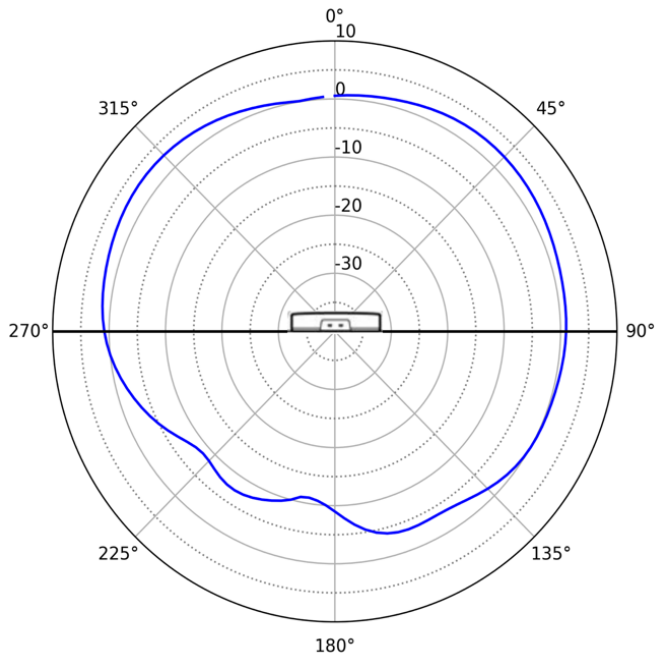
6G High Elevation



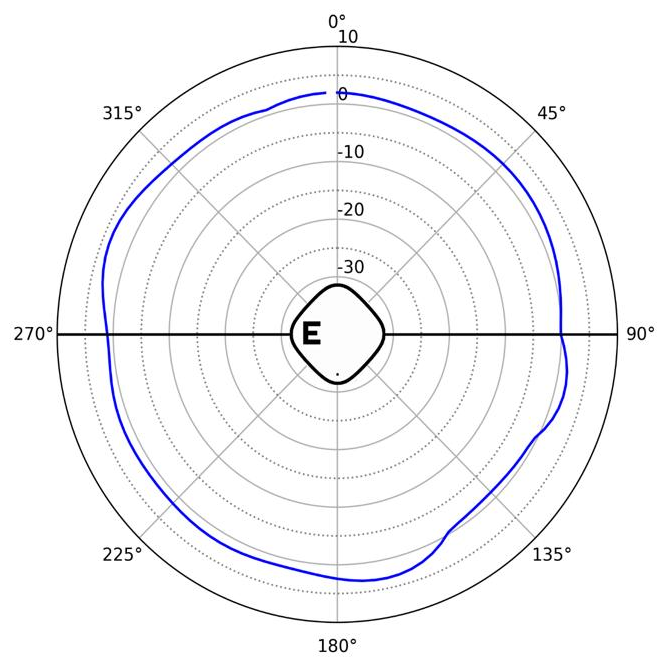
6G High Azimuth



2G Sensor Elevation

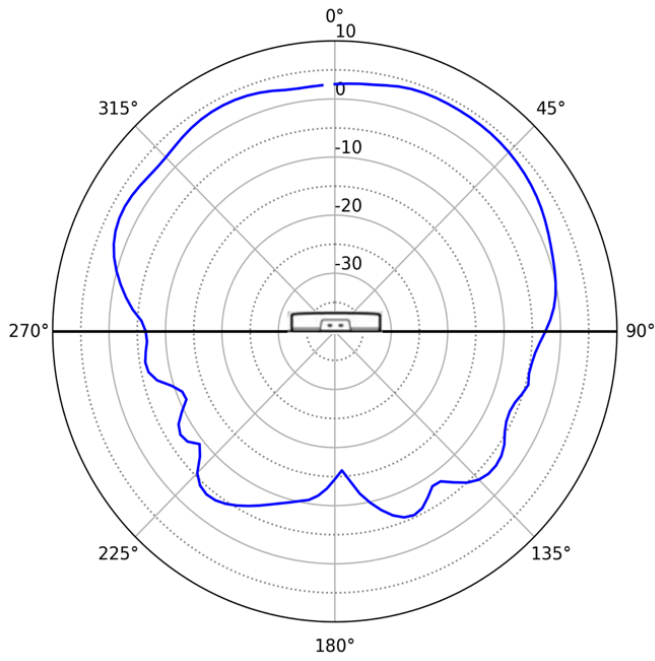


2G Sensor Azimuth

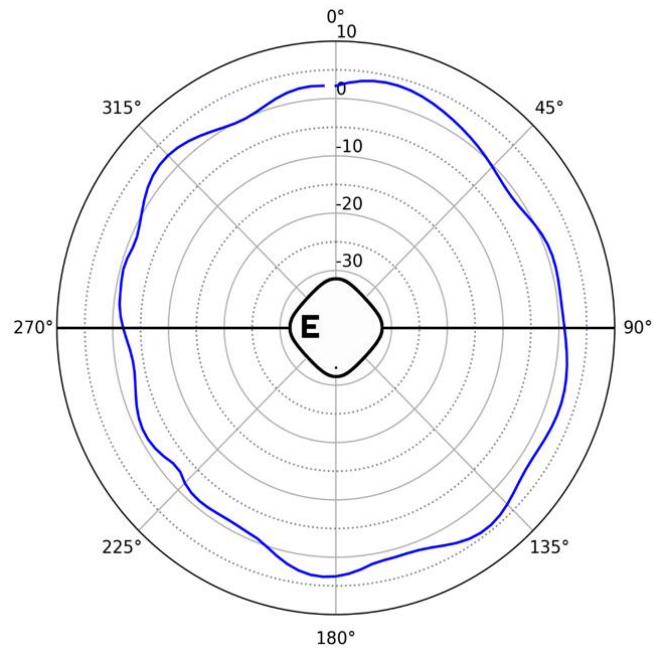


AP5022 Radiation Patterns

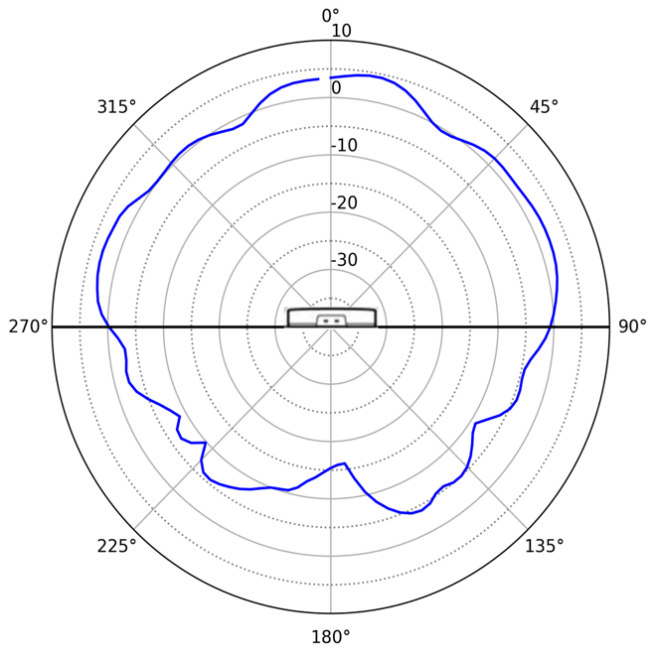
5G Sensor Elevation



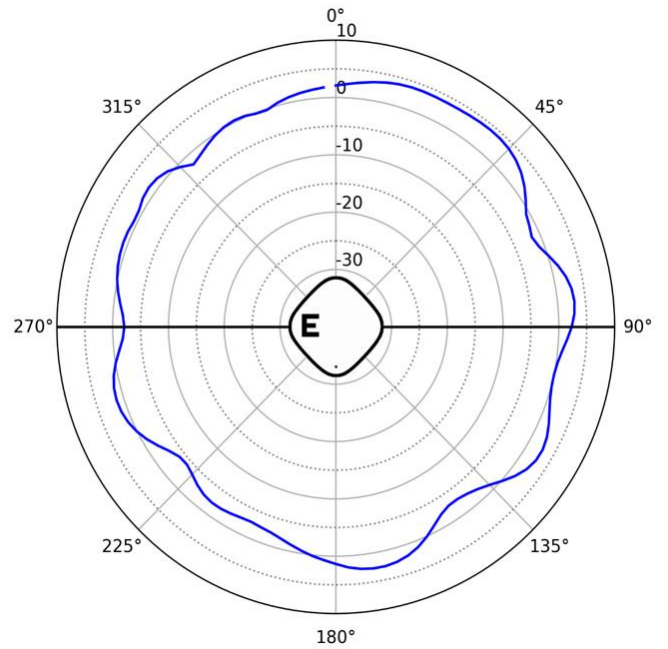
5G Sensor Azimuth



6G Sensor Elevation

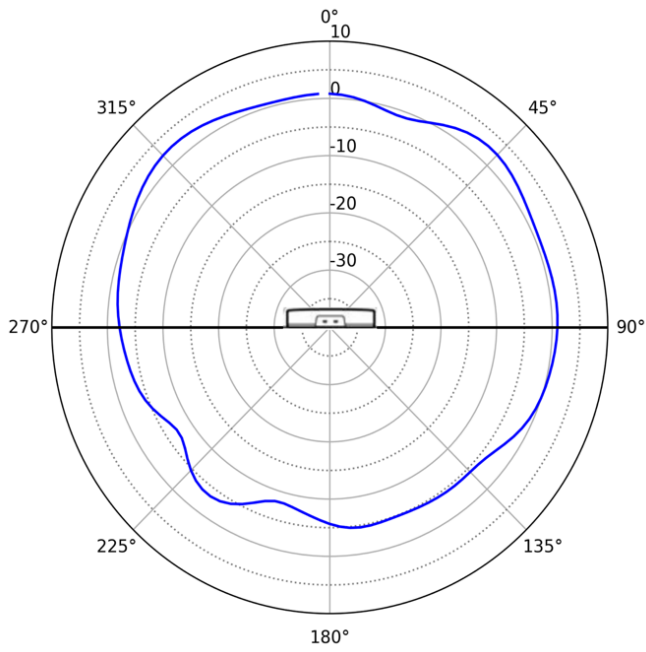


6G Sensor Azimuth

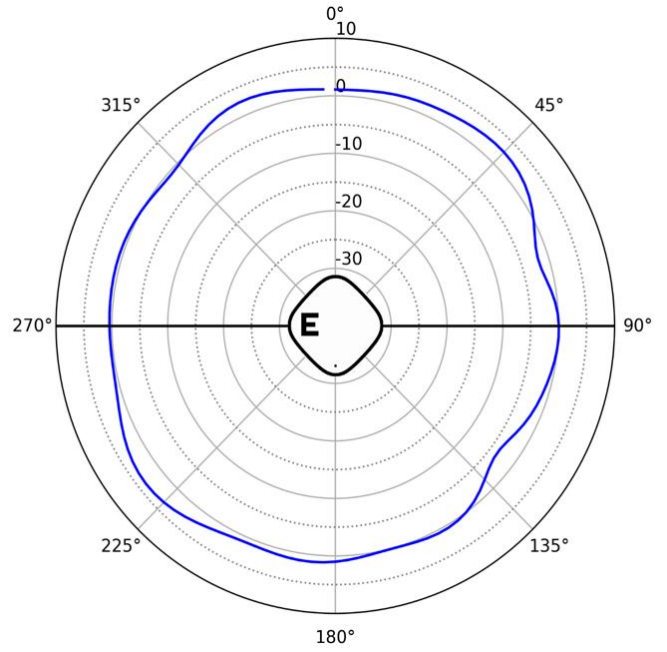


AP5022 Radiation Patterns

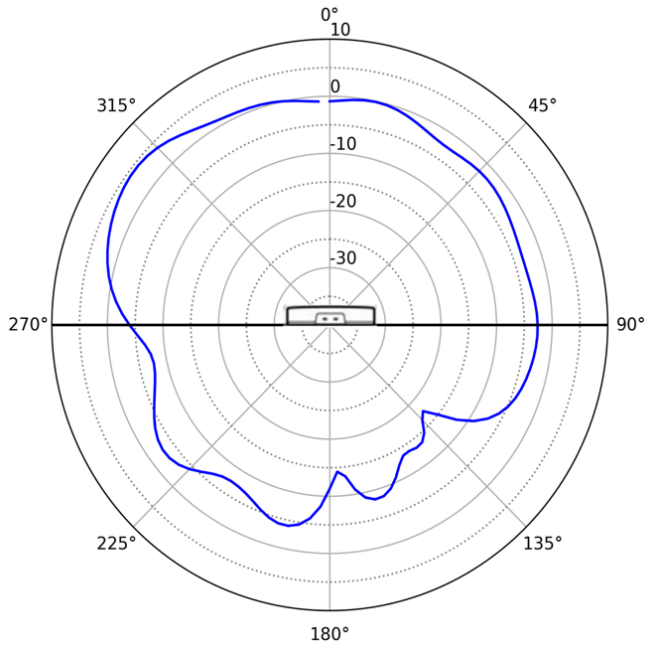
BLE R1 Elevation



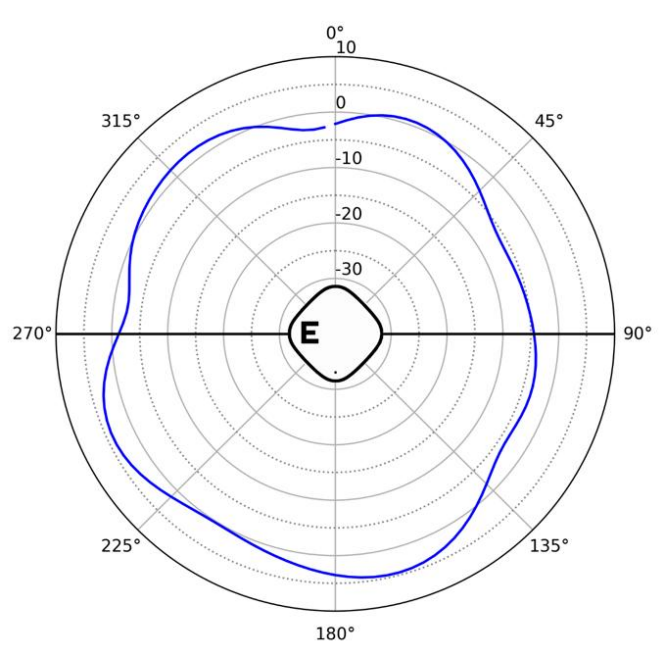
BLE R1 Azimuth



BLE R2 Elevation

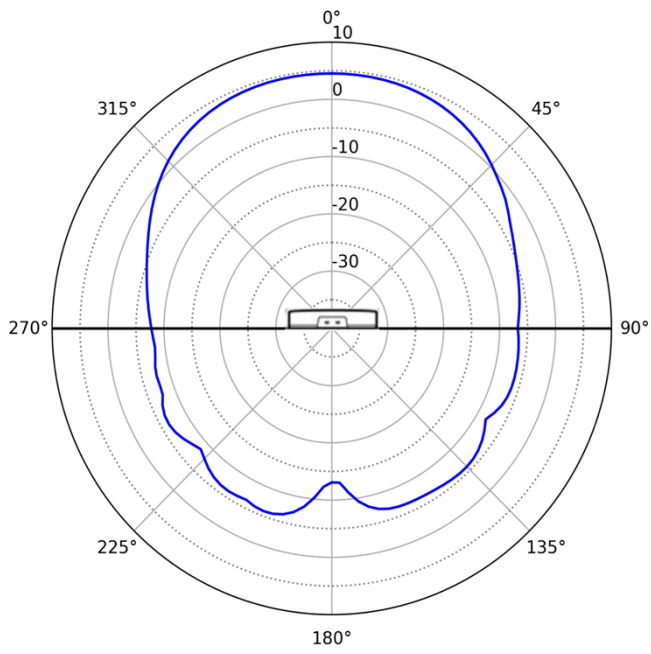


BLE R2 Azimuth

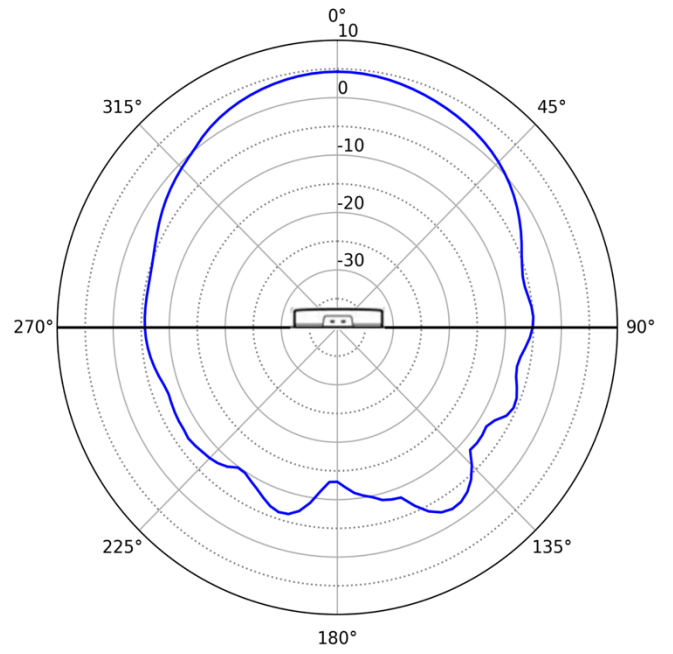


AP5022S6D Radiation Patterns

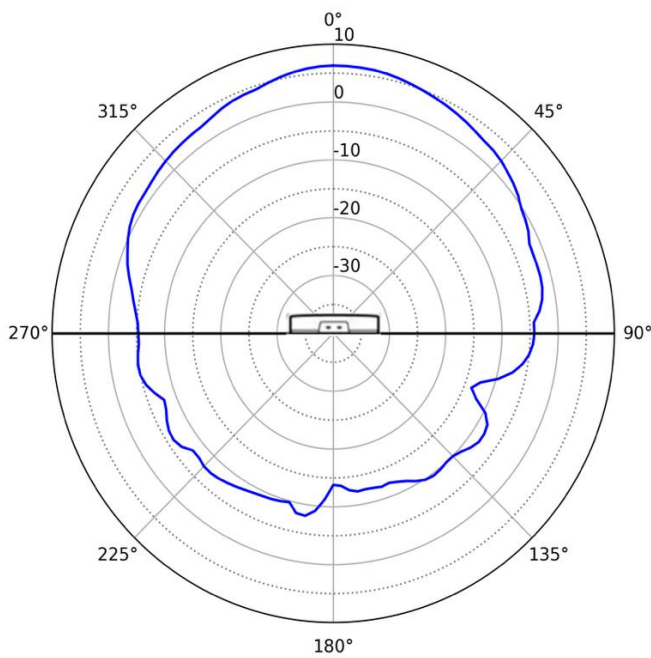
2G Elevation



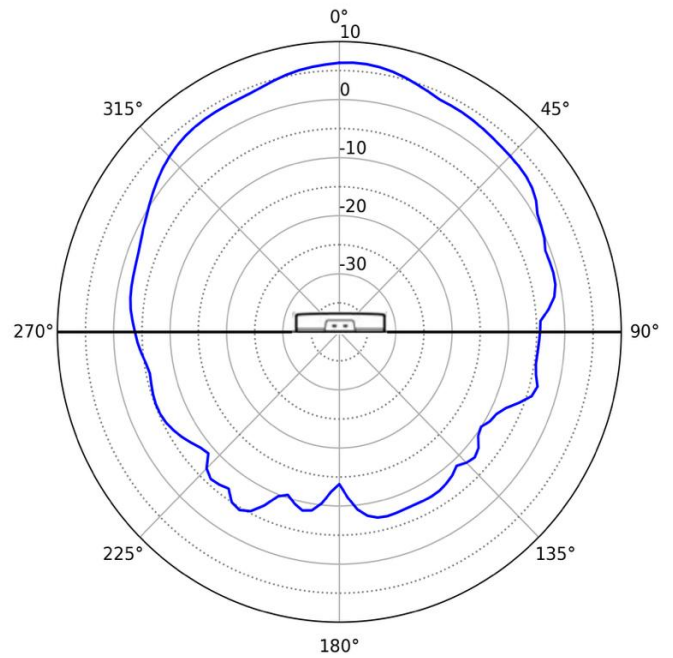
2G Azimuth



5G Elevation

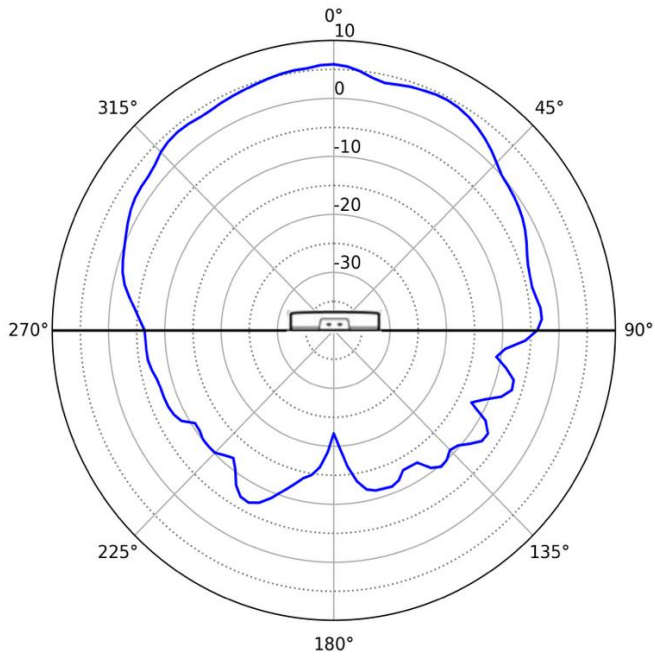


5G Azimuth

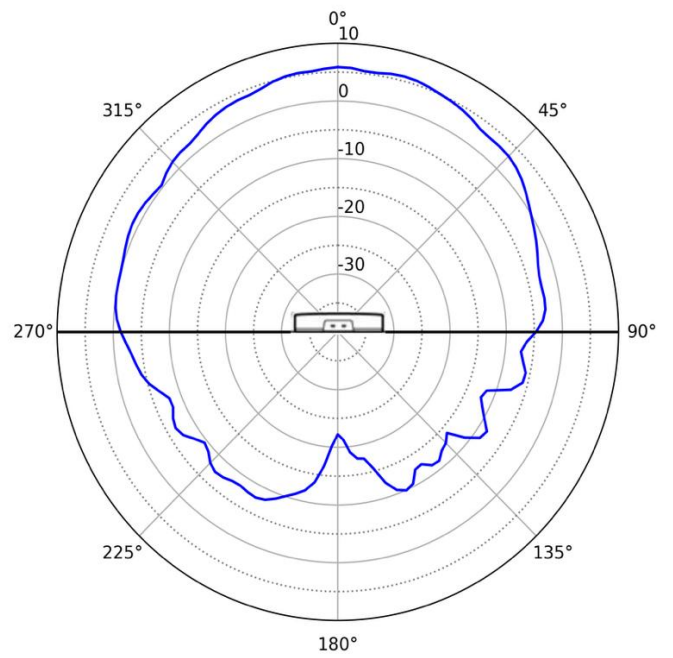


AP5022S6D Radiation Patterns

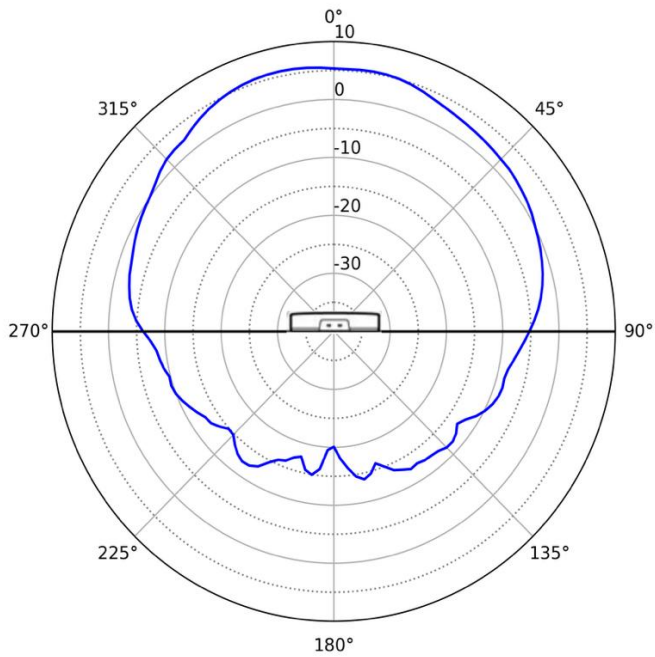
6G Elevation



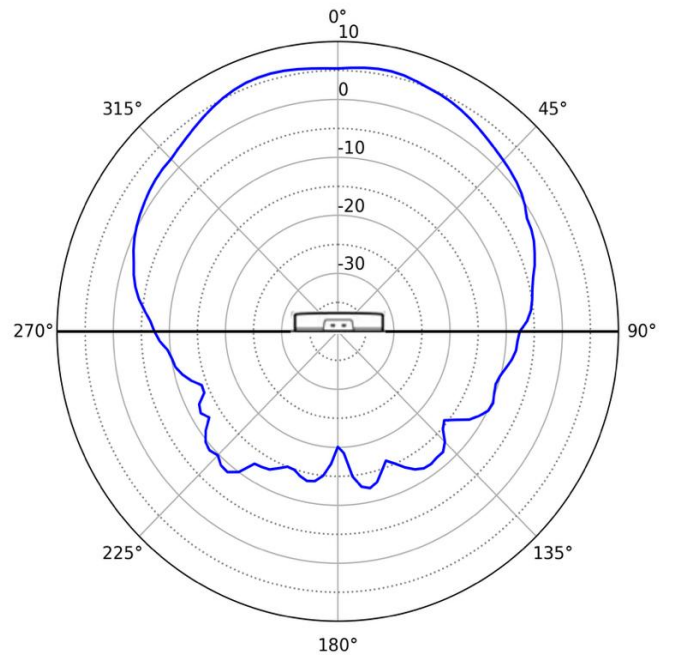
6G Azimuth



5G Low Elevation

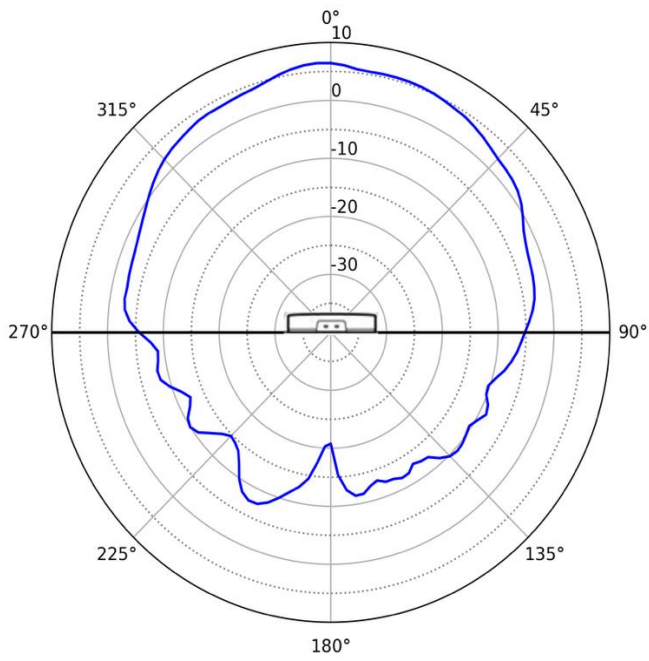


5G Low Azimuth

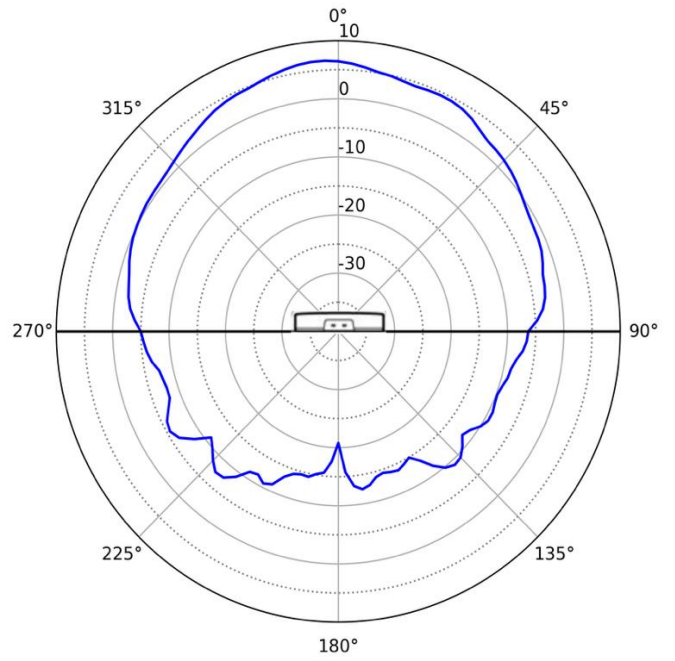


AP5022S6D Radiation Patterns

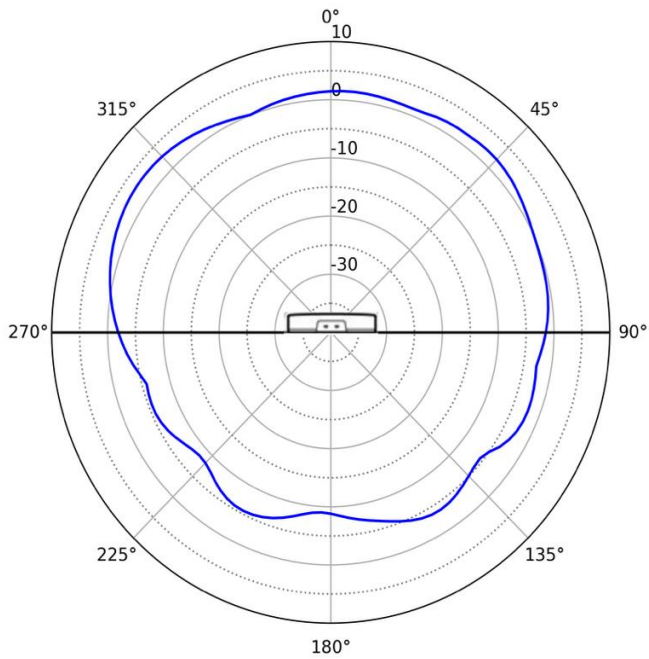
6G High Elevation



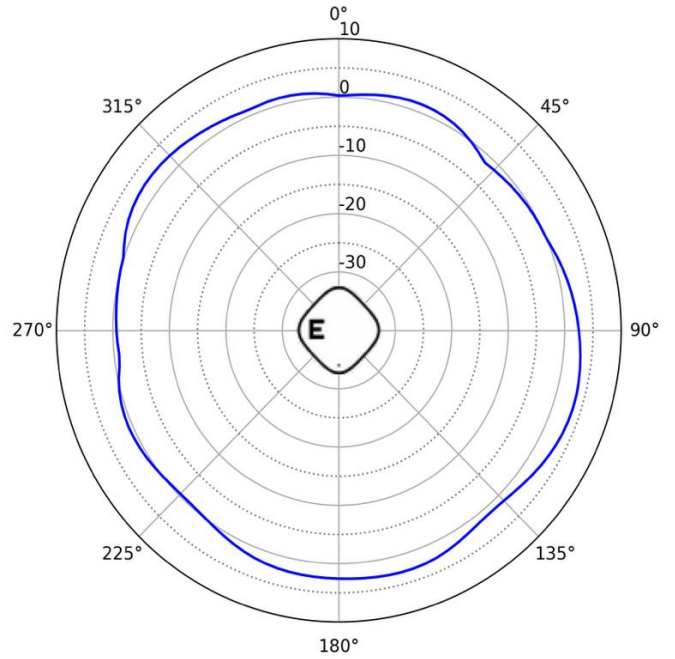
6G High Azimuth



2G Sensor Elevation

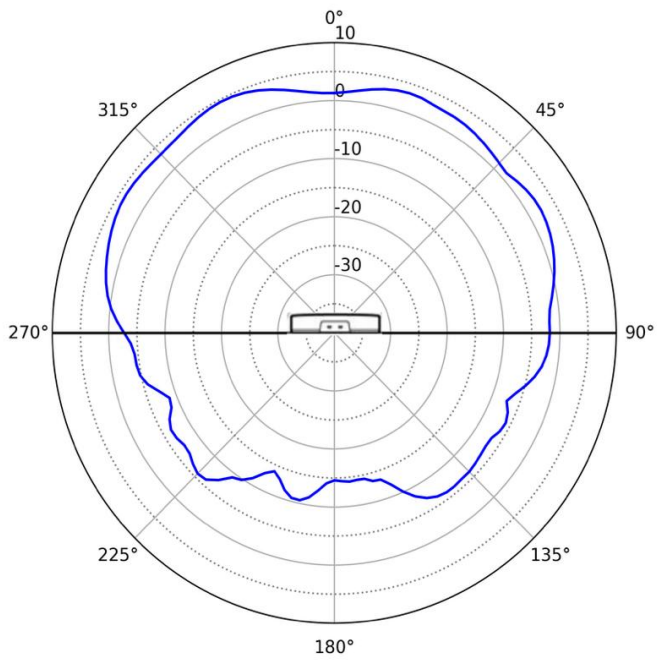


2G Sensor Azimuth

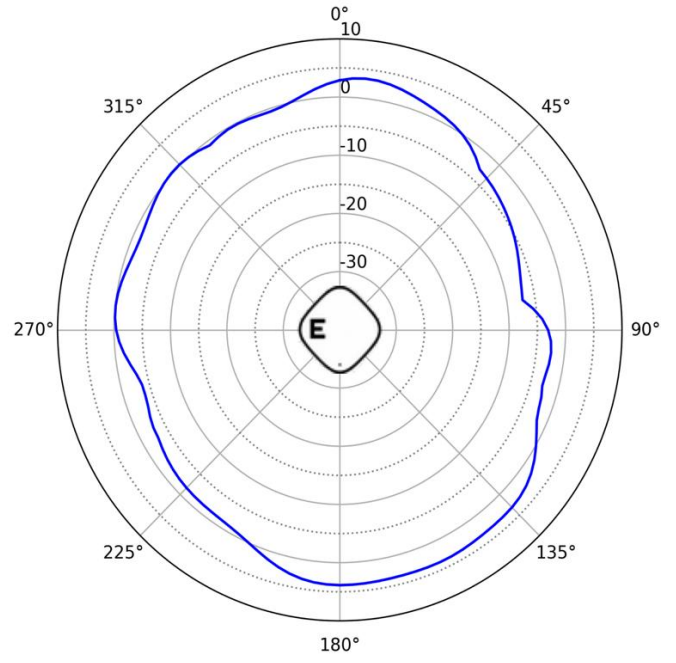


AP5022S6D Radiation Patterns

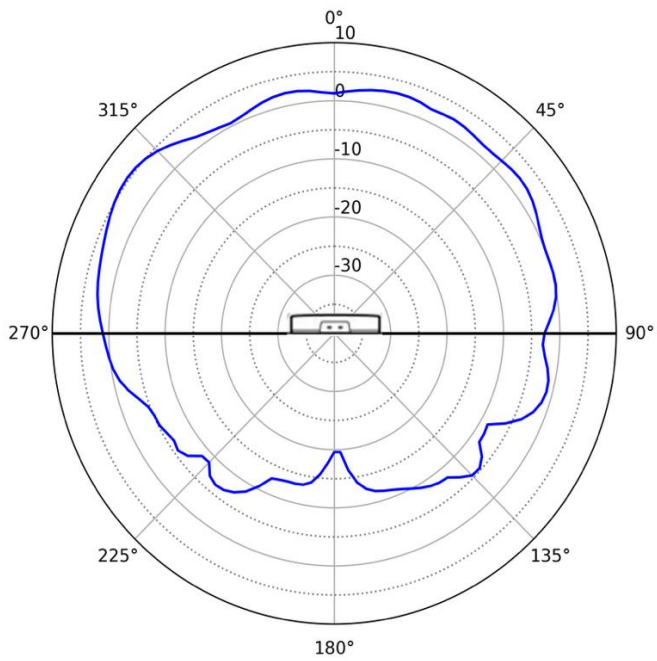
5G Sensor Elevation



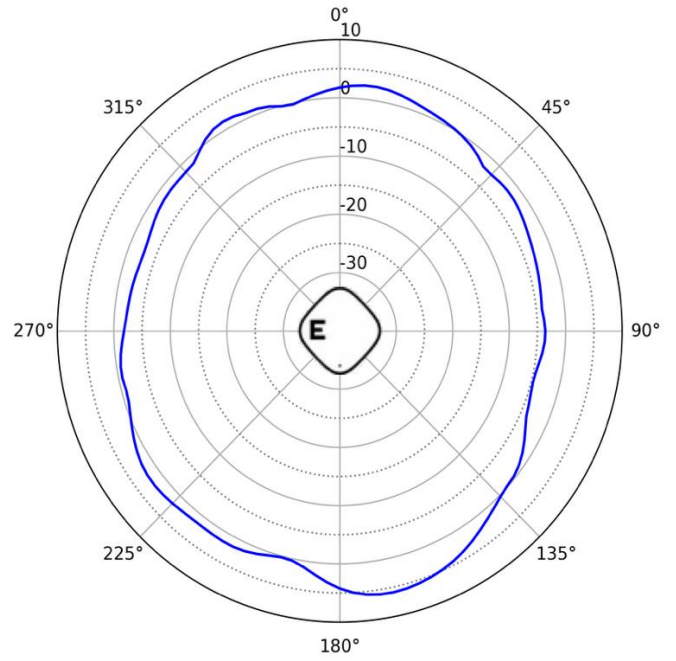
5G Sensor Azimuth



6G Sensor Elevation

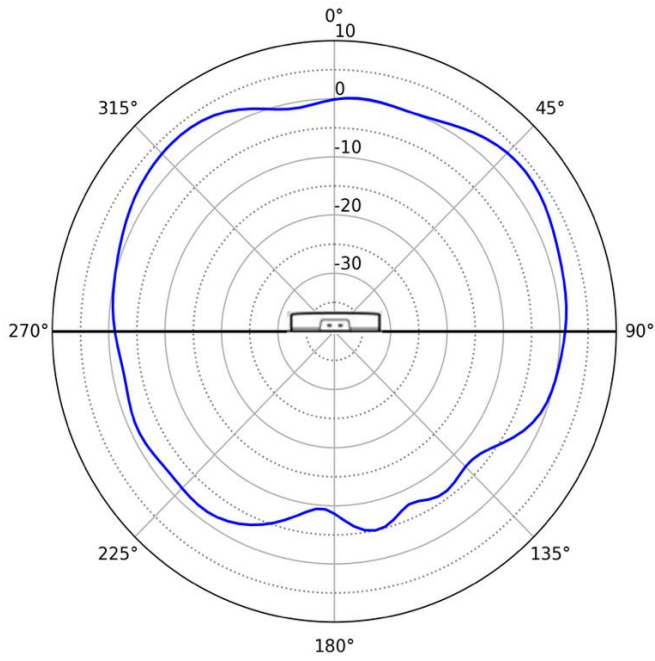


6G Sensor Azimuth

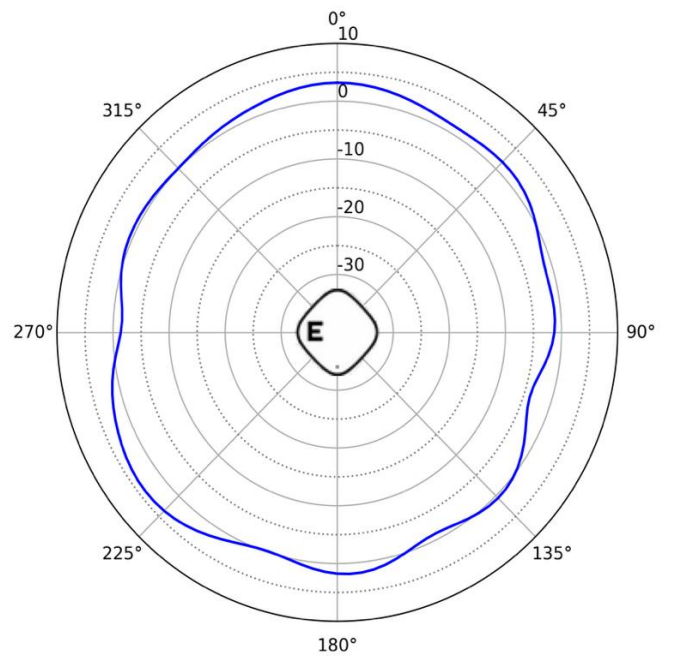


AP5022S6D Radiation Patterns

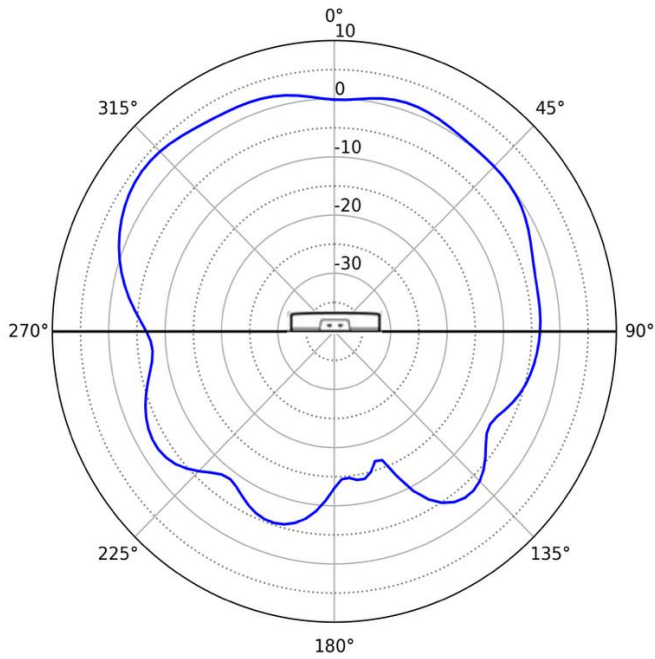
BLE R1 Elevation



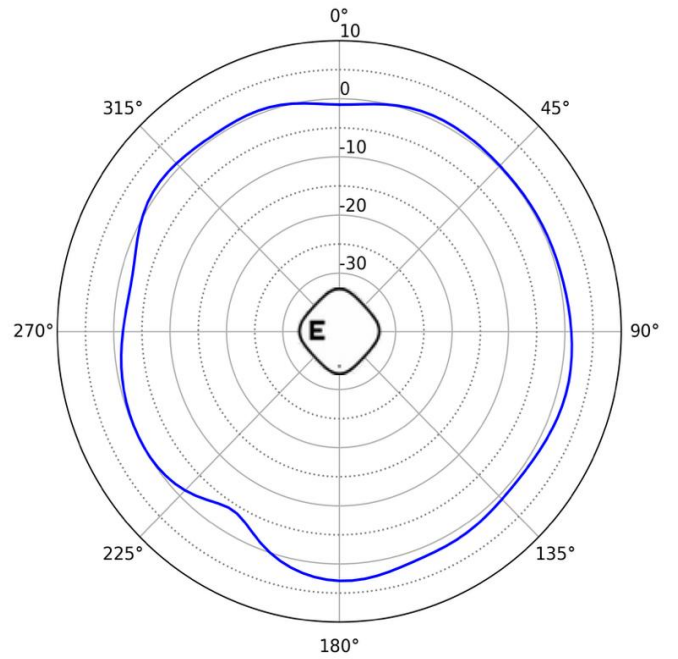
BLE R1 Azimuth



BLE R2 Elevation



BLE R2 Azimuth



Ordering Information

Access Point SKUs

Part Number	Description
AP5022-WW	Indoor Quad Radio Wi-Fi 7 (4x4:4): 2.4 GHz, 5 GHz, 6 GHz & dedicated full time sensor, Dual IoT, Dual 5 GHz, Dual 6 GHz, Multi-Rate Port, Internal antennas. T-Bar, Incl Mt (AH-ACC-BKT-AX-TB). Domain: World SKU
AP5022S6D-WW	Indoor Quad Radio Wi-Fi 7 (4x4:4): 2.4 GHz, 5 GHz, 6 GHz & dedicated full time sensor, Dual IoT, Dual 5 GHz, Dual 6 GHz, Multi-Rate Port, Internal 60 Degree directional antennas. T-Bar, Incl Mt (AH-ACC-BKT-AX-TB). Domain: World SKU
AP5022FX-WW	Indoor Quad Radio Wi-Fi 7 (4x4:4): 2.4 GHz, 5 GHz, 6 GHz & dedicated full time sensor, Dual IoT, Dual 5 GHz, Dual 6 GHz, Multi-Rate Port, Extended Temp, External antennas. T-Bar, Incl Mt (AH-ACC-BKT-AX-TB). Domain: World SKU
AP5022-WW-TAA	Indoor Quad Radio Wi-Fi 7 (4x4:4): 2.4 GHz, 5 GHz, 6 GHz & dedicated full time sensor, Dual IoT, Dual 5 GHz, Dual 6 GHz, Multi-Rate Port, Internal antennas. T-Bar, Incl Mt (AH-ACC-BKT-AX-TB). Domain: World SKU TAA Compliant

Note: 6 GHz operation is country dependent.

Note: For AP5022FX units outside the US and Canada, the internal 6 GHz radio is enabled to support Low Power Indoor (LPI) operation.

AP5022FX Antenna SKUs

Part Number	Description
AI-TSO6360	3.5 dBi (2.4 GHz) and 5.5 dBi (5 and 6 GHz) Indoor Dipole Tri-band with RP-SMA connector
AI-TQO8055	7 dBi (2.4 GHz) and 6 dBi (5 and 6 GHz) Indoor Quad Sector 2.4 GHz 65 Degrees and 5 GHz 55 Degrees Tri-band with attached 1 meter 4-port RP-SMA cable. Mount included.
AIO-DQ15021-RPSMA	5 dBi Indoor/Outdoor Four-port, 2.4 GHz and 5 GHz, Directional 21 Degree with 36 inch RPSMA cable
AIO-HQ17020	17 dBi (5 and 6 GHz) Indoor Quad Directional 20 Degree with detachable 1 meter 4-port RP-SMA cable. Mount included.
AI-TQO6120	6 dBi Indoor Quad Sector 120 Degree Tri-band with attached 1 meter 4-port RP-SMA cable. Mount included.

Mounting Options

Part Number	Description	Notes
AH-ACC-BKT-AX-TB	Mounting bracket for Prelude 15/16" and Suprafine 9/16" ceilings and walls	Ships with AP5022 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	
AH-ACC-BKT-AX-SL	Mounting bracket for Armstrong 1/8" and 1/4" main beam Silhouette reveal ceiling grids	Up to 0.33" ceiling tile protrusion
ACC-BKT-AX-JB	Junction box or wall mounting for indoor APs	Gang/junction box
ACC-BKT-AX-BEAM	Beam mounting for indoor APs	Up to 0.78" thick beam
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	Adapter bracket AH-ACC-BKT-TB for 15/16" wide t-bars non-flat/protruded ceiling tiles	5/16" wide t-bars non-flat/protruded ceiling tiles
ACC-BKT-AX-WNGADAPT	Adapter backet for cloud AP to wing mounting plate (#37201). 10 pack.	Allow twist mount to mount to legacy mounts

Power Accessories

Part Number	Description
37219	PWR adapter 12V DC, 3A, 2.5 mm x 5.5 mm connector

Other Accessories

Part Number	Description
ACC-WIFI-MICRO-USB	Micro-USB to USB console adapter cable for Extreme wireless APs

See [Product Installation Guide](#) for more details.

Warranty

The AP5022 Series 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.

