Extreme™
Customer-Driven Networking

Highlights

Radio Technology

- 802.11ac - 5 GHz 2x2:2
- 802.11ac - 2.4 GHz 2x2:2

Management and Analytics with ExtremeCloud™ IQ

- Automated deployments
- Simplified network operations
- Advanced reporting and network insights

Self-Driving Architecture

- Distributed control Wi-Fi delivers self-optimizing and self-healing mobility
- Automated client distribution between radios or neighboring access points
- Dynamic mesh backhaul

Secure Network Access

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

Aerohive
NETWORKS

ExtremeWireless™ AP130

802.11ac Dual-Radio 2X2:2 Access Point With Internal Antennas; Offering a Full Scope of Enterprise-Grade Features for High Density Environments

The AP130 provides high-performance aggregate data rates up to 1167Mbps, with dual 2.4 GHz 802.11b/g/n and 5 GHz 802.11a/n/ac radios. This access point is powerful enough to provide all the services needed for an enterprise network, and cost-effective enough to deploy for the higher capacity needs of every office, classroom, or store.

The AP130 benefits from an AI-driven Wi-Fi architecture capable of self-organizing, self-healing, and self-optimizing connectivity in the most challenging environments, helping eliminate single points of failure and data bottlenecks. Underlying the AP130 is a powerful operating system driving a stateful L2-L7 DPI firewall for context-based access security, advanced and customizable QoS for traffic optimization, intelligent meshing algorithms, Private Pre-Shared Key (PPSK) security, and much more.

Ex | Extreme Elements™

ExtremeWireless™ AP305C/CX

Hu | Human
Wi | Wireless Indoor APs
IQ | Extreme Cloud iQ

Built to Suit Your Business Needs

Extreme Elements are the building blocks that allow you to tailor your network to your specific business environment, goals, and objectives. They enable the creation of an Autonomous Network that delivers the positive experiences and business outcomes most important to your organization.

Combining architecture, automation, and artificial intelligence, Extreme Elements enable you to ensure that your uses get what they need — when and where they need it. Providing these superior user experiences is as simple as mixing and matching the right elements.

Learn more at www.extremenetworks.com/extreme-elements/.

Advance Security

This access point delivers the highest level of security services, including a fully stateful L2-L7 DPI firewall for context-based access security, Private Pre-Shared Key (PPSK) authentication, on-board RADIUS services, WIPS, VPN tunnelling, and much more.
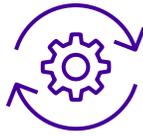
Automated Deployments

Powered by cloud networking, this access point can easily be deployed alongside thousands of others in no time at all. Extreme's management system provides granular templates and auto provisioning to enable centralized enterprise plug-and-play rollouts.

Performance Optimization

With a performance optimized operating system, this access point works collectively with neighboring devices to fine tune overall network health for connected clients, utilizing a granular, customizable QoS engine that adjusts performance based on user, device, and application privileges.
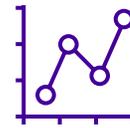
Management Analytics

In conjunction with Extreme's management system, this access point provides a rich set of data displayed via context driven widgets, detailing historical data and real-time analytics. This provides context-specific granularity with perspective views for locations, network, network devices, individual client devices, as well as policy roles. In each context, administrators can adjust dashboards from the widget library.

RF Monitoring

Adaptive RF algorithms provide intelligent selection of the best channels and transmit power for unimpaired network access. Load balancing, band steering and many other attributes of the RF can all be automated. In addition, administrators can view network health through Extreme's management system.

Eliminate Downtime

Identifying when network challenges arise, the operating system of this access point will automatically determine how to reroute clients and traffic to avoid performance dips or stranded devices. If any wired backhaul connection issues are detected, the access point can dynamically enable a wireless mesh backhaul link to a neighboring access point to keep data flowing.

Product Specifications

Radio Specifications

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 & 5.150–5.850 GHz Operating Frequency
- 802.11n Modulation
- Rates (Mbps): MCS0 - MCS15 (6.5MBps - 300Mbps)
- 2x2 Multiple-In, Multiple-Out (MIMO) Radio
- 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

802.11ac
- 5.150–5.850 GHz Operating Frequency
- 802.11ac Modulation (256-QAM)
- Rates (Mbps): MCS0–MCS9 (6.5Mbps – 867Mbps), NSS = 1-2.
- 2x2:2 Stream Multiple-In, Multiple-Out (MIMO) Radio
- VHT20/VHT40/VHT80 support
- TxBF (Transmit Beamforming)

Interfaces
- Autosensing 10/100/1000 BASE-T Ethernet PoE (Power over Ethernet 802.3af) Port

Power Specifications
- IEEE 802.3af PoE Power

Power Options
- Power Draw: Typical 9.05W, Max 11W
- 802.3af Power over Ethernet (PoE) capable
- Gigabit Ethernet port (RJ-45 power input pins:
- Wires 4,5,7,8 or 1,2,3,6)
- 802.3af Power over Ethernet injector

Physical
- LxWxH 147X147X42 mm (5.79x5.79x1.65in). (w/o mounting brackets)
- .51kg (1.13 lbs) (w/o mounting brackets)

Antennas
- 2x Integrated single band, 2.4-2.5 GHz omnidirectional antennas
- 2x Integrated single band, 5.1-5.8 GHz omnidirectional antennas

Mounting
- Desktop
- Wall Mount included as part of AP
- Built-in slot for Kensington type locks
- Ceiling Tile Recessed 15/16", 3/8", 9/16" sold as an accessory
- Ceiling Tile flush 3/8", 9/16" sold as an accessory
- Suspend Mount sold as an accessory
- Plenum Mount sold as an accessory
- TPM chip for added security

Environmental
- Operating: 0 to 40 °C, Storage: -40 to 70 °C
- Humidity: 95%

Environmental Compliance
- UL2043

Power and Sensitivity

Power - 2.4 GHz

Channel	Data Rate	Power (dBm)
11b	1 - 11 Mbps	21
11g	6 Mbps	19
	54 Mbps	16
11n HT20	MCS0 - 12	20
	MCS7, 15	16

Receive Sensitivity - 2.4 GHz

Channel	Data Rate	Power (dBm)
11b	1 - 11 Mbps	-99, -91
11g	6 Mbps	-95
	54 Mbps	-77
11n HT20	MCS0 - 12	-94, -81
	MCS7, 15	-74

Power - 5 GHz

Channel	Data Rate	Power (dBm)
11a	6 Mbps	19
	54 Mbps	16
11n HT20	MCS0 - 12	19
	MCS 7, 15	16
11n HT40	MCS0, 8	19
	MCS7, 15	14
11ac VHT20	MCS0	19
	MCS8	13
11ac VHT40	MCS0	19
	MCS9	12
11ac VHT80	MCS0	19
	MCS9	12

Receive Sensitivity - 5 GHz

Channel	Data Rate	Power (dBm)
11a	6 Mbps	-94
	54 Mbps	-77
11n HT20	MCS0 - 12	-93, -81
	MCS 7, 15	-73
11n HT40	MCS0, 8	-93, -90
	MCS7, 15	-74, -71
11ac VHT20	MCS0	-93
	MCS8	-69
11ac VHT40	MCS0	-90
	MCS9	-64
11ac VHT80	MCS0	-87
	MCS9	-61

Radiation Patterns – Azimuth and Elevation

Azimuth - 2.4 GHz
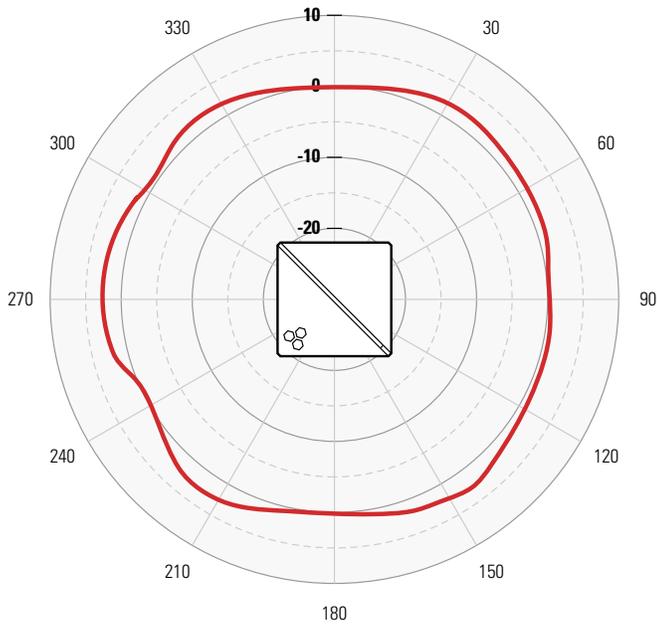
Elevation - 2.4 GHz
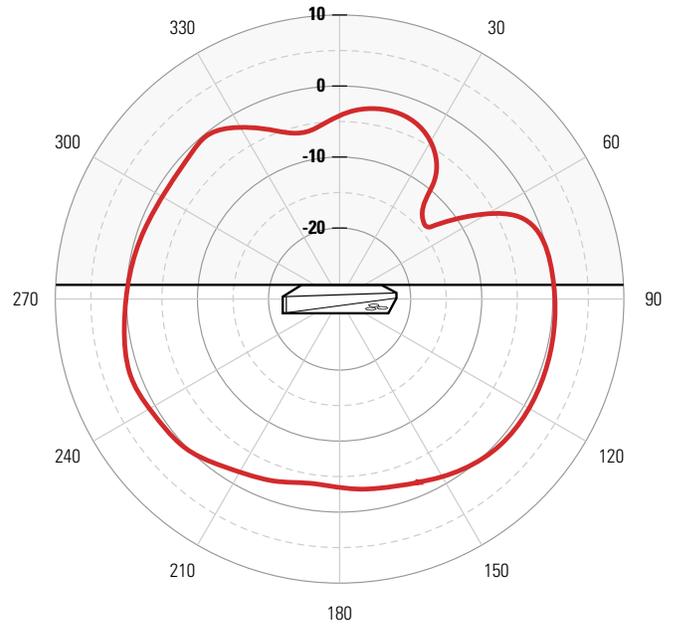
Azimuth - 5 GHz
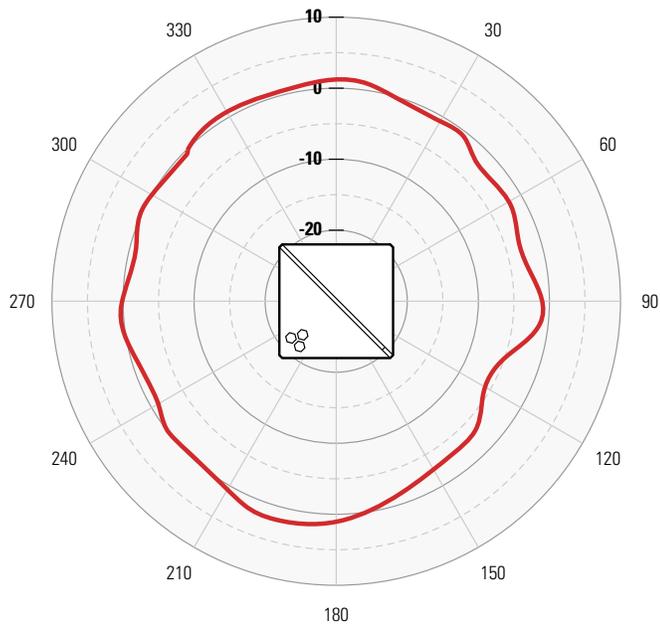
Elevation - 5 GHz
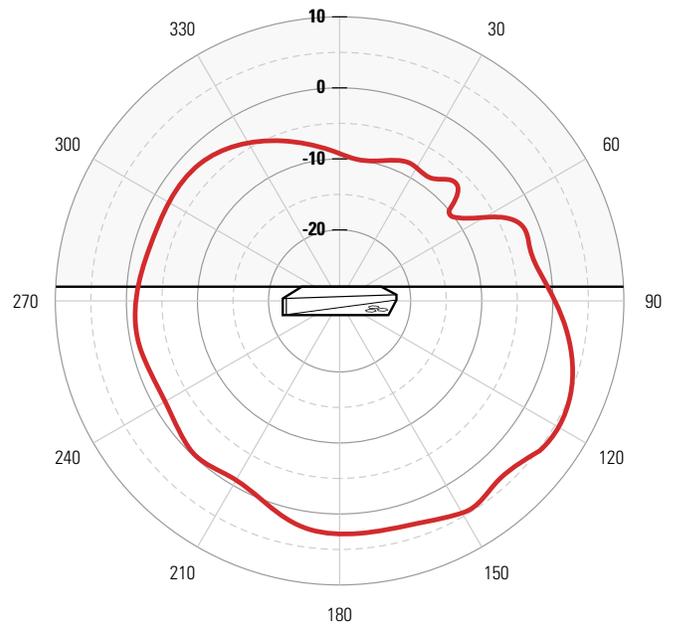
Ordering Information

AP130 - SKUs

SKU	Description
AH-AP-130-AC-XX	AP130, indoor plenum rated, 2 radio 2x2:2 802.11a/b/g/n/ac, 1 10/100/1000 Ethernet port, without power supply (Internal Antenna only). Includes HiveManager Connect & HiveCare Community. (Regulatory Domains available: FCC, CE, W (World))

AP130 - Miscellaneous SKUs

SKU	Description
AH-ACC-INJ-30W-UK	30W POE power injector with UK power cord for AP122,AP122X,AP130, AP200 series,AP550,AP630,AP650 and AP650X
AH-ACC-INJ-30W-US	30W POE power injector with US power cord for AP122,AP122X,AP130, AP200 series,AP550,AP630,AP650 and AP650X
AH-ACC-PLENUM-KIT	AP130,AP230, AP245X, AP250, AP550 Plenum Bracket Kit
AH-ACC-RBR-FT	Rubber feet for AP130/AP200 series/AP550
AH-ACC-SEC-BIT-3PK	AP122,AP122X,AP130,AP230, AP245X, AP250, AP550 security screw bit (3pk)
AH-ACC-SEC-KIT	Security bracket, screws and security screw bit for AP122,AP122X, AP130, AP230, AP245x, AP250
AH-ACC-BKT-916-KIT	AP122, AP122X, AP130, AP200 series/AP500 series 9/16" ceiling mount brackets for recessed and flush ceiling tiles
AH-ACC-BKT-AC-KIT	AP122, AP122X, AP130, AP200 series/AP500 series 15/16" ceiling mount brackets for recessed and non-recessed ceiling tiles
AH-ACC-BKT-AC-WALL	AP122, AP122X, AP130/AP230/AP245X/AP250,AP550 wall mounting and 15/16" ceiling mount bracket
AH-ACC-BKT-SILINT-KT	AP122, AP122X, AP130,AP230/AP245X/AP250 ,AP550 Mounting bracket kit for Silhouette and Interlude ceiling types
AH-ACC-BKT-SU-KIT	AP122,AP122X,AP130,AP230,AP245X, AP250, AP550 Suspend Bracket Kit
AH-ACC-BKT-WP-KIT	Wall plate bracket kit for AP122, AP122X, AP130, AP230, AP245X, AP250,AP550 Includes the bracket and security screws
AH-ACC-INJ-20W-AU	20W POE power injector with Australia/New Zealand power cord for AP100 series
AH-ACC-INJ-20W-EU	20W POE power injector with EU power cord for AP100 series
AH-ACC-INJ-20W-UK	20W POE power injector with UK power cord for AP100 series
AH-ACC-INJ-20W-US	20W POE power injector with US power cord for AP100 series
AH-ACC-INJ-30W-AU	30W POE power injector with Australia/New Zealand power cord for AP122,AP122X,AP130, AP200 series,AP550,AP630,AP650 and AP650X
AH-ACC-INJ-30W-EU	30W POE power injector with EU power cord for AP122,AP122X,AP130, AP200 series,AP550,AP630,AP650 and AP650X