

# AP1130

**Enterprise-grade, high performance, rugged 2x2:2 802.11ac MIMO solution, especially designed for outdoor high-bandwidth-demand wireless deployments in harsh environments.**

AP1130 is designed for extended temperature range and a watertight chassis making it suitable for the roughest environments. The AP1130 provides high-performance dual band concurrent (2.4 GHz and 5 GHz) 802.11ac (2x2:2) MIMO and has a 1x GE port.

AP1130 is one of industry's lightest 802.11ac access points, allowing easy installation in hard to reach places like rooftops and poles by a single person. It also features intuitive LEDs which indicate the AP status and backhaul connections either over Ethernet or wireless (mesh backhaul). Additionally, AP1130 features a brand new capability to provide accurate tuning of directional antennas for long range point-to-point mesh connections. This capability provides for a visual and audio mechanism to accurately identify the most suitable orientation for antennas, such that the mesh link is formed at the highest possible negotiated rate, leading to improved user experience.

AP1130 is a key component of the Aerohive Connect solution. Connect provides cloud-managed connectivity built on Aerohive's industry-first cooperative control Wi-Fi focused on optimizing speed and resilience. Connect is centrally managed from the cloud, allowing for simple, fast, and powerful management.



## AEROHIVE CONNECT COMPONENTS



### ENTERPRISE CONNECTIVITY

- 2x2:2 802.11ac technology
- Trusted Platform Module (TPM) – Hardware-based key storage and encryption
- Encryption: AES/CCMP, TKIP, and RC4 (WEP only)
- Buzzer for long distance point to point mesh tuning
- Automatic or dedicated mesh backup



### CLOUD MANAGEMENT

- Network Device and Client Monitoring
- Global Search and Filter function
- Auto-Provisioning Tools for quick and easy deployment
- Network Health View
- Versatile RF Planning
- Guided Network Configuration Setup
- 802.1X and PSK Secured Networks
- Guest Access functionality with configurable Captive Web Portal



### HIVECARE SUPPORT

- HiveCare Community Support: forum-based interactive support
- HiveCare Connect CallBack service (optional)
- Wide array of online resources and tools

## PRODUCT SKUs

SKU	DESCRIPTION
AH-AP-1130-AC-FCC	AP1130, outdoor rated, 2 radio 2x2 802.11a/b/g/n/ac, 1 10/100/1000, FCC regulatory domain, without power supply
AH-AP-1130-AC-W	AP1130, outdoor rated, 2 radio 2x2 802.11a/b/g/n/ac, 1 10/100/1000, configurable regulatory domain, without power supply
AH-ACC-1130-ANT-2G	2.4Ghz N-Plug outdoor 5dBi antenna for AP1130
AH-ACC-1130-ANT-5G	5Ghz N-Plug outdoor 5dBi antenna for AP1130
AH-ACC-1130-ANT-18	5Ghz 18-dBi Outdoor Directional Antenna with N-connectors for AP1130
AH-ACC-1130-ANT-SEC	120 degree dual band 2x2 sector antenna for AP1130. 4 x N connectors. Kit includes coaxial cables and mounting assembly.

## PRODUCT SPECS

### 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

### Radio Specifications—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

### Radio Specifications—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

### Radio Specifications—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 for 2.4GHz and 5GHz
- HT40 High Throughput for 5GHz
- A-MPDU and A-MSDU Frame Aggregation

### Radio Specifications - 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

### Included Mounting Options

- Wall Mounted
- Pole mounted – 1-2.75inch pole strap included

### Antennas

- 4x N-type jack antenna connections for external antennas
- Antennas sold as accessory

### Interfaces

- Autosensing 10/100/1000 Base-T Ethernet PoE (Power over Ethernet 802.3at) Port

### Physical

- LxWxH: 7.71x7.71x2.12in (196x196x54mm) without brackets and antennas
- 2.6 lbs (1.079 Kg), without brackets and antennas

### Environmental

- Operating: -40 to +55°C, Storage: -40 to +80°C
- Humidity: 95%

### Environmental Compliance

- IP 67

### Power Options (sold separately)

- 802.3at Power over Ethernet (PoE) port

### Power Specifications

- IEEE 802.3at PoE Power
- 12 V DC input

## TRANSMIT POWER TABLE

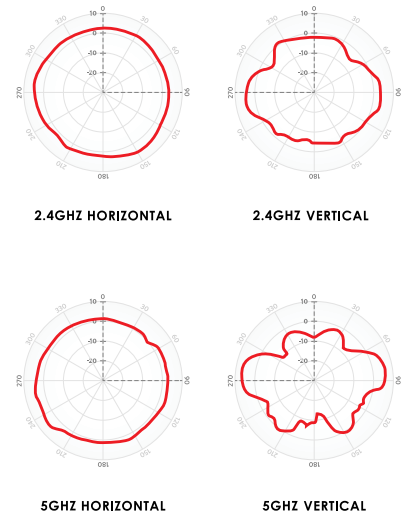
2.4 GHZ	DATA RATE	POWER (dBm)
11b	1,2,5,11	23
	6 - 24 Mbps	21
11g	36 Mbps	20
	48 Mbps	19
11n HT20	MCS0-4,8-12	22
	MCS5,13	21
11n HT40	MCS6,14	19
	MCS7,15	18
5 GHZ	DATA RATE	POWER (dBm)
11a	6 - 24 Mbps	21
	36 Mbps	19
11n HT20	48 Mbps	18
	54 Mbps	17
11n HT40	MCS0-4,8-12	21
	MCS5,13	19
11ac HT20	MCS6,14	18
	MCS7,15	17
11ac HT40	MCS0-4,8-12	20
	MCS5,13	19,18
11ac HT80	MCS6,14	18,17
	MCS7,15	17,16
11ac VHT	256QAM@3/4 Code Rate	16
	256QAM@5/6 Code Rate	15

Note: Power shown is per transmit chain and is the maximum power that the radio is capable of. Power limits will be limited by local radio regulations.

## RECEIVE SENSITIVITY TABLE

2.4 GHZ	DATA RATE	SENSITIVITY
11b	1 Mbps	-98
	11 Mbps	-90
11g	6 - 24 Mbps	-94,-85
	36 Mbps	-82
11n HT20	48 Mbps	-77
	54 Mbps	-76
11n HT40	MCS0-4,8-12	-93,-80
	MCS5,13	-76
11n HT80	MCS6,14	-74
	MCS7,15	-73
5 GHZ	DATA RATE	SENSITIVITY
11a	6 - 24 Mbps	-94, -86
	36 Mbps	-82
11n HT20	48 Mbps	-78
	54 Mbps	-77
11n HT40	MCS0-4,8-12	-93, -81
	MCS5,13	-76
11n HT80	MCS6,14	-75
	MCS7,15	-73
11ac HT20	MCS0-4,8-12	-93 to -81, -90 to -78
	MCS5,13	-77, -74
11ac HT40	MCS6,14	-75, -72
	MCS7,15	-74, -71
11ac HT80	256QAM@3/4 Code Rate	-69
	256QAM@5/6 Code Rate	-66
11ac VHT	256QAM@3/4 Code Rate	-63
	256QAM@5/6 Code Rate	-61

## RADIATION PATTERNS



## WARRANTY & SUPPORT

This Aerohive Networks device is backed by a limited lifetime hardware warranty. HiveCare Community Support is included with the Connect Access Point. Optional HiveCare Callback service may also be purchased.

For complete support terms go to [www.aerohive.com/support](http://www.aerohive.com/support).

