AP1130 ACCESS POINT

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

The 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.

The AP1130 is one of the 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, the 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.

The AP1130 provides cloud-managed connectivity built on Aerohive's industry-first cooperative control Wi-Fi focused on optimizing speed and resilience. The AP1130 is centrally managed from HiveManager, allowing for simple, fast, and powerful management.

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 or ON-PREM MANAGEMENT*

- Application Visibility and Control
- Historical Dashboard and Troubleshooting
- Guest Self-registration and Mobile Apps
- Aerohive PPSK
- Advanced QoS
- Role Based Access Controls
- Rogue Detection and PCI Compliance
- Dell Switch Management

Basic features
- 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

*Non-basic features, On-prem management and Dell switch management enabled with available HiveManager license

WIRELESS SUPPORT

- Dell EMC HiveManager License to manage the access point with comprehensive ProSupport for Software is also available
- Enterprise ProSupport and ProSupport Plus services are also available
- HiveNation Community based support is included with the Access Point.

PRODUCT SKUS

SKU	DESCRIPTION
210-AOBQ	AP1130, outdoor rated, 2 radio 2x2 802.11a/b/g/n/ac, 1 10/100/1000, FCC regulatory domain, without power supply
210-AOBR	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 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

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

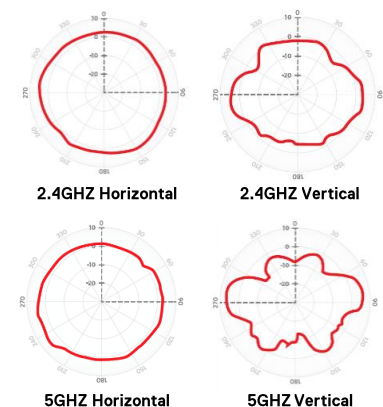### Power Specifications
- IEEE 802.3at PoE Power
- 12 V DC input

TRANSMIT POWER TABLE

2.4 GHZ	Data Rate	Power (dBm)
11b	1,2,5.5,11	23
11g	6-24 Mbps	21
	36 Mbps	20
	48 Mbps	19
	54 Mbps	18
11n HT20	MCS0-4, 8-12	22
	MCS5, 13	21
	MCS6, 14	19

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
	48 Mbps	-77
	54 Mbps	-76
11n HT20	MCS0-4, 8-12	-93, -80
	MCS5, 13	-76

RADIATION PATTERNS

2.4GHZ Horizontal

2.4GHZ Vertical

5GHZ Horizontal

5GHZ Vertical

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TRANSMIT POWER TABLE

5 GHZ	Data Rate	Power (dBm)
	MCS7, 15	18
11a	6-24 Mbps	21
	36 Mbps	19
	48 Mbps	18
	54 Mbps	17
11n HT20	MCS0-4, 8-12	21
	MCS5, 13	19
	MCS6, 14	18
	MCS7, 15	17
11n HT40	MCS0-4, 8-12	20
	MCS5, 13	19, 18
	MCS6, 14	18, 17
	MCS7, 15	17, 16
11ac VHT	265QAM@3/4 Code rate	16
	265QAM@5/6 Code rate	15

RECEIVE SENSITIVITY TABLE

5 GHZ	Data Rate	Sensitivity
11n HT20	MCS6, 14	-74
	MCS7, 15	-73
11a	6- 24 Mbps	-94, -86
	36 Mbps	-82
	48 Mbps	-78
	54 Mbps	-77
11n HT20	MCS0-4, 8-12	-93, -81
	MCS5, 13	-76
	MCS6, 14	-75
	MCS7, 15	-73
11n HT40	MCS0-4, 8-12	-93 to -81, -90 to-78
	MCS5, 13	-77, -74
	MCS6, 14	-75, 72
	MCS7, 15	-74, -71
11ac HT20	256QAM@3/4 Code Rate	-69
11ac HT40	256QAM@3/4 Code Rate	-66
	256QAM@5/6 Code Rate	-64
11ac HT80	256QAM@3/4 Code Rate	-63
	256QAM@5/6 Code Rate	-61

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.

WARRANTY & SUPPORT

This product is backed by a Dell EMC Extended Life Limited Hardware Warranty (ELW). For warranty terms, go to Dell.com/LifetimeWarranty.

When an Access Point is managed with an active Dell HiveManager License, it includes ProSupport for Software HiveManager coverage. Additional Access Point hardware and software support is available with the Dell EMC ProSupport Enterprise Suite. Installation and configuration services are also available with the Dell EMC ProSupport Enterprise Suite.

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