DATA SHEET



Enterprise-Grade 4x4, 4-stream, 802.11ax Access Point with Integrated Antennas







The AP630 is designed for high performance environments, combining the latest in Wi-Fi standards (IEEE 802.11ax technology) with Aerohive's software defined network architecture and HiveManager network management system. Powered by HiveOS and the innovative distributed Cooperative Control architecture, AP630 brings the best of capacity and advanced high-efficiency 802.11ax technology. In addition, the integrated BLE radio and a USB interface in the access point opens up a multitude of deployment use-cases in IoT and proximity/location-oriented services.

The **AP630** benefits from an Al-driven Wi-Fi architecture capable of self-organizing, self-learning, self-healing and self-optimizing in the most challenging environments. Cooperative Control eliminates single points of failure and bottlenecks, delivering stability and unbridled performance, complimenting the capabilities of HiveOS - 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) and much more.

All Aerohive APs can be centrally managed using Aerohive's out-of-band cloud network management system - *HiveManager*. HiveManager is an industry-leading and visionary approach to cloud-managed networking, built from the ground up to take full advantage of the SD-LAN solution from Aerohive. Working in tandem with Aerohive's HiveOS, HiveManager leverages state-of-the-art cloud technology. Benefit from unified, full-stack management of Wi-Fi, switching and routing, centralized monitoring and configuration, real-time and historical reporting, simplified trouble-shooting, integrated RF planner tools and much more.

HiveManager is available in two editions: *Connect* and *Select*. The Connect solution is bundled with Aerohive access points and switches and is free for the lifetime of the device. Connect is the perfect solution for those looking to provide robust, yet enterprise-grade connectivity, without having to invest in the full suite of management features. The optional upgrade to Select unlocks a multitude of advanced features and capabilities that enhance network management, security and visibility.

Radio Specifications

Wireless Frequency Range

- USA: 2.400 ~ 2.483 GHz, 5.15 ~ 5.35 GHz, 5.47 ~ 5.725 GHz, 5.725 ~ 5.85 GHz
- Europe: 2.400 ~ 2.483 GHz, 5.15 ~ 5.35 GHz, 5.47 ~ 5.725 GHz
- Japan: 2.400 ~ 2.497 GHz, 5.15 ~ 5.35 GHz, 5.47 ~ 5.725 GHz
- China: 2.400 ~ 2.483 GHz, 5.725 ~5.85 GHz

Channel Support

802.11 b/g/n/ax

- US/Canada: 11 (1 ~ 11)
- Europe: 13 (1 ~ 13)
- Japan: 11b: 14 (1~13 or 14th), 11g: 13 (1 ~ 13)
- China: 13 (1 ~ 13)

802.11 a/n/ac/ax

- US/Canada: 24 non-overlapping channels (36,40,44,48,52,56,60,64;100,104,108, 112,116,120,124,128,132,136,140; 149,153,157,161,165)
- Europe: 19 non-overlapping channel (36,40,44,48,52,56,60,64;100,104,108,112, 116,120,124,128,132,136,140)
- Japan: 19 non-overlapping channels (36,40,44,48,52,56,60,64;100,104,108,112, 116,120,124,128,132,136,140)
- China: 5 non-overlapping channels (149,153,157,161,165)

Modulation Technology

802.11 Legacy a/b/g

- DSSS (DBPSK, DQPSK, CCK) OFDM (BPSK, QPSK, 16-QAM, 64-QAM)
- DSSS (Direct Sequence Spread Spectrum) with DBPSK (Differential Binary Phase Shift Keying 1 Mbps), DQPSK (Differential Quaternary Phase Shift Keying 2 Mbps), and CCK (Complementary Code Keying 5.5 & 11 Mbps), and OFDM (Orthogonal Frequency Division Multiplexing with BPSK for 6, 9 Mbps. QPSK for 12, 18 Mbps; 16QAM for 24, 36 Mbps; 64QAM for 48, 54 Mbps)

802.11n

• OFDM (BPSK, QPSK, 16-QAM, 64-QAM)

802.11ac

• OFDM (BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM)

802.11ax

OFDMA (1024-QAM)

Mounting

- Wall or ceiling mount
- TPM chip for added security

Interfaces

- •2x 10/100/1000 Gigabit Ethernet
- USB support for future IoT use cases
- Console port for CLI access
- Built in BLE for iBeacon and beacon management applications

Radios

- Dual Radio AP, 2.4 GHz and 5 GHz, simultaneous dual band
- 2.4 GHz, 802.11b/g/n/ax, 4x4
- 5 GHz, 802.11 a/n/ac/ax, 4x4
- 160 MHz, 1024-QAM supported

Environmental

- Operating Temperature: 0 to 40° C
 Storage Temperature: -40 to 70° C
- Humidity: 10 to 95%
- MTBF: >500,000 Hours @ 25° C (estimate)
- RoHS: -2 Compliant

Power Consumption

802.3at PoE Power: Typical 15.4 W, Max 17.82 W

Physical

- Dimensions: 205mm x 205mm x 37mm
- Weight: 2.53lb (1.15kg)

Antenna

• 4x Dual Band, omnidirectional antenna plus 1x internal Bluetooth/ZigBee antenna

Peak Antenna Gain:

- 2.4 GHz omnidirectional, gain 4.8 dBi
- 5 GHz omnidirectional, gain 5.2 dBi
- Bluetooth/ZigBee omnidirectional, gain 4.2 dBi

Power - 2.4 GHz

CHANNEL	DATA RATE	POWER
11b	1,2,5.5,11 Mbps	18
	54 Mbps	15
11g	48 Mbps	16
iiy	36 Mbps	17
	6 Mbps	18
	MCS0,1,2	18
	MCS3	17
HE20	MCS4,5	16
ПЕЗО	MCS6,7	15
	MCS8,9	14
	MCS10,11	12
	MCS0,1,2	18
	MCS3	17
HE40	MCS4,5	16
HE40	MCS6,7	15
	MCS8,9	14
	MCS10,11	12

Receive Sensitivity - 2.4 GHz

CHANNEL	DATA RATE	SENSITIVITY
11b	1 Mbps	-99
110	11 Mbps	-90
	6 Mbps	-96
11.0	36 Mbps	-84
11g	48 Mbps	-80
	54 Mbps	-78
	MCSO	-95
	MCS1	-91
	MCS2	-89
	MCS3	-86
	MCS4	-83
HE20	MCS5	-79
IILZU	MCS6	-77
	MCS7	-76
	MCS8	-72
	MCS9	-70
	MCS10	-67
	MCS11	-64
	MCS0	-92
	MCS1	-89
	MCS2	-86
	MCS3	-84
	MCS4	-80
HE40	MCS5	-76
11240	MCS6	-75
	MCS7	-73
	MCS8	-70
	MCS9	-68
	MCS10	-64
	MCS11	-62

Power - 5 GHz

CHANNEL	DATA RATE	POWER
	54 Mbps	18
	48 Mbps	18
11a	36 Mbps	19
	6 Mbps	20
	MCS0,1,2	20
	MCS3,4	19
	MCS5,6	18
HE20	MCS7,8	17
	MCS9	16
	MCS10	15
	MCS11	14
	MCS0,1,2	19
	MCS3,4,5	18
HE40	MCS6,7,8	17
пс40	MCS9	16
	MCS10	15
	MCS11	14
	MCS 0,1,2	19
	MCS 3,4,5	18
HE80	MCS 6,7,8	17
111100	MCS 9	16
	MCS 10	15
	MCS 11	14
	MCS 0,1,2	19
	MCS 3,4,5	18
HE160	MCS 6,7,8	17
IILIUU	MCS 9	16
	MCS 10	15
	MCS 11	14

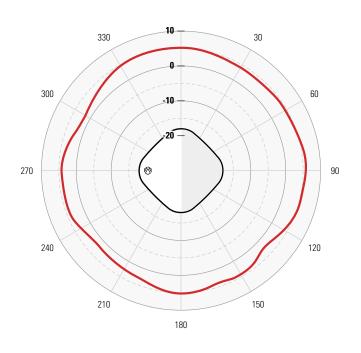
Receive Sensitivity - 5 GHz

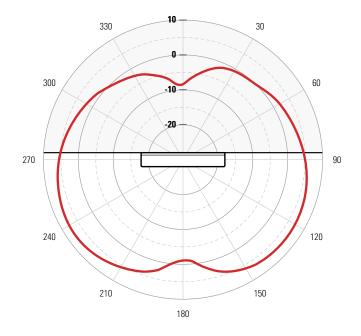
CHANNEL	DATA RATE	SENSITIVITY
11a	6 Mbps	-94
	36 Mbps	-83
	48 Mbps	-79
	54 Mbps	-77
	MCSO	-94
	MCS1	-91
	MCS2	-88
	MCS3	-86
	MCS4	-82
HE20	MCS5	-78
HEZU	MCS6	-77
	MCS7	-75
	MCS8	-71
	MCS9	-69
	MCS10	-66
	MCS11	-63
	MCSO	-92
	MCS1	-88
	MCS2	-86
	MCS3	-83
	MCS4	-80
HE40	MCS5	-76
11140	MCS6	-74
	MCS7	-73
	MCS8	-69
	MCS9	-67
	MCS10	-63
	MCS11	-60

	MCSO	-88
	MCS1	-85
	MCS2	-83
	MCS3	-80
	MCS4	-77
HE80	MCS5	-73
	MCS6	-71
	MCS7	-69
	MCS8	-66
	MCS9	-64
	MCS10	-60
	MCS11	-57
	MCS0	-85
	MCS1	-82
	MCS2	-80
	MCS3	-77
	MCS4	-74
	MCS5	-70
HE160	MCS6	-68
	MCS7	-66
	MCS8	-63
	MCS9	-61
	MCS10	-57
	MCS11	-54

Azimuth - 2.4 GHz

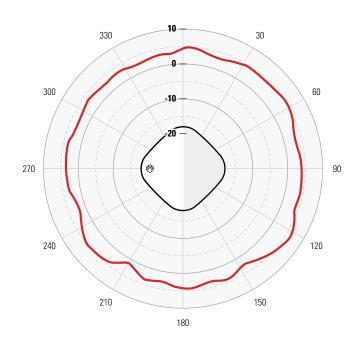
Elevation - 2.4 GHz

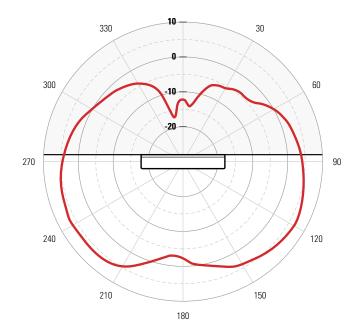




Azimuth - 5 GHz

Elevation - 5 GHz





AP630 - SKUs

SKU	DESCRIPTION
AH-AP-630-AX-XX	AP630 Indoor plenum rated AP, dual radio 4x4:4 802.11ac/ax AP, 2 x 1GE port, with internal antennas. Includes HiveManager Connect and HiveCare Community. (Regulatory Domains available: FCC, CE, W (World), CAN (Canada))

AP630 - 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-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
AH-ACC-BKT-AX-IL	Armstrong mounting bracket for Interlude ceiling for the AP650, AP650X, or AP630
AH-ACC-BKT-AX-TB	Replacement Prelude Bracket, T-Bar, Supported on AP630, AP650 and AP650X. Same as in-box accessory.
AH-ACC-BKT-AX-SL	Mounting bracket for Silhouette ceiling, 1/4" or 1/8". Supported on AP630, AP650 and AP650X.
AH-ACC-BKT-AX-WL	Bracket, Wall Mount, Supported on AP630, AP650 and AP650X.