Ceiling/Wall Mount Low Profile AP with integrated antennas
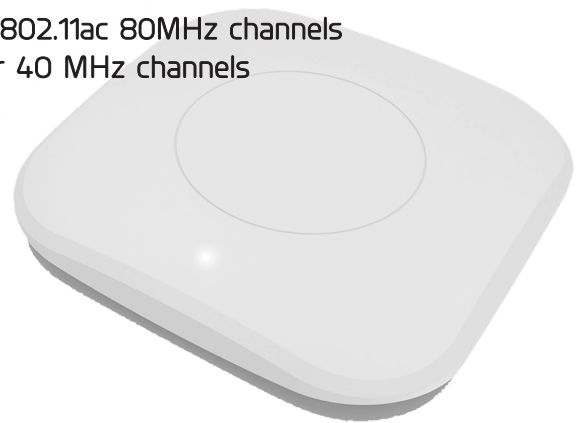
The Buzd SensorOne is IEEE 802.11a/b/g/n/ac standards-based, and operate on both 2.4 GHz b/g/n and 5 GHz a/n spectrums. Supporting the latest 802.11ac technology, including 80 MHz channels width, both access points achieve a 280% throughput improvement over their 802.11n equivalents.

The Buzd SensorOne is a next generation smoke detector form factor access point, perfect for discrete installations, such as hotel or school hallways. Supporting 2x2 MIMO technology with two spatial streams, this access point provides association rates of up to 867 Mbps.

The Buzd SensorOne has been designed specifically with real-time analytics in mind. The firmware and arial design has been optimized to provide the most highly accurate dedicated analytics sensor on the market. Designed and built by Buzd, the SensorOne may be deployed in sensor only mode, and through a small software upgrade may be upgraded at a later date to perform as both a sensor and highly secure Wi-Fi Access Point.
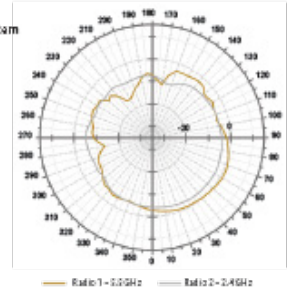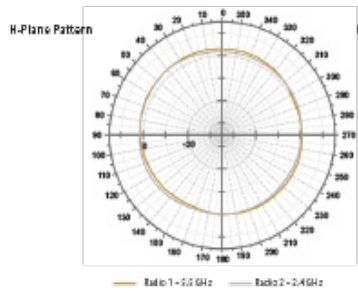
Deploying the Sensor One in sensor only mode reduces the cost of Implementation and where customers have already deployed a Wi-Fi solution keeps the cost to a minimum while ensuring the best analytics sensor designed specifically for Presence Analytics.

2.4GHz, IEEE 802.11 b/g/n
2.4GHz, Data Rate: up to 300Mbps for 40MHz channels;
5GHz, IEEE 802.11 a/n/ac
5GHz, Data Rate: up to 867Mbps in 802.11ac 80MHz channels
5GHz, Data Rate: up to 300Mbps for 40 MHz channels
Operation Modes: Access Point
Security with 802.1X, WPA, and AES
Dual IEEE 802.3at (PoE)

Shoppers are using mobile in-store for more than just gathering product information

43% Access Social Media
45% Use Coupons/ Discounts
46% Find Product Information
49% Take/Share Product Photos
52% Maintain Shopping Lists
61% Get Price Comparisons

pingpoint

Stayed for 20 mins
New customer
Aisle 2 10 mins

Z
(E-Plane)
Y
FLOOR
(H-Plane)
X

H-Plane Pattern

E-Plane Pattern

Radio 1 - 5.0 GHz   Radio 2 - 2.4 GHz

Radio 1 - 5.0 GHz   Radio 2 - 2.4 GHz

Hardware Specifications

Base Platform	QCA 9557+QCA 9881+QCA8337
CPU Clock Speed	720 MHz
Wireless Radio	802.11bgn/ac
Reset Switch Built-in	Push-button momentary contact switch
Standards Conformance	IEEE 802.3 / IEEE 802.3u
Ethernet Configuration	10/100/1000 BASE-TX auto-negotiation Ethernet port x 2(RJ-45 connector)
	Auto MDI/MDI-X enabled, IEEE802.3af/at Power Over Ethernet Compatible
SDRAM	On board : 64 Mbytes
Flash	On board : 8 Mbytes
Built-In LED Indicators	1x Power, 2x LAN

Wireless Specifications

Network Standards Conformance	IEEE802.11 b /g /n compliant
Data Transfer Rate	IEEE802.11b 1 / 2 / 5.5 / 11Mbps (auto sensing)
	IEEE802.11g 6 / 9 / 12 / 18 / 24 / 36 / 48 / 54(auto sensing)
	IEEE802.11n: 300Mbps (at 40MHz), 150Mbps (at 20MHz)
	IEEE802.11ac :867Mbps(at 80MHz)
Channel Space	B/G Mode: 20MHz
	N Mode : 20/40MHz
	AC Mode : 80MHz
Frequency Range	IEEE802.11b/g
	2.412 ~ 2.462GHz (USA)
	2.412 ~ 2.484GHz (Japan)
	2.412 ~ 2.472 GHz (Europe ETSI)
	2.457 ~ 2.462 GHz (Spain)
	2.457 ~ 2.472 GHz (France)
	IEEE802.11 a/n/ac:
	5.150 – 5.350 & 5.725 – 5.825 GHz (USA)
	4.900 – 5.250 GHz(Japan)
	5.150 – 5.350 & 5.470 – 5.725GHz (Europe ETSI)
Media Access Protocol	CSMA / CA with ACK
Modulation Method	IEEE802.11b DSSS (DBPK, DQPSK, CCK)
	IEEE802.11g OFDM (64-QAM,16-QAM, QPSK, BPSK)
	IEEE802.11n : BPSK,QPSK,QPSK,16-QAM,64-QAM
Operating Channels	802.11b/g/n:
	11 for FCC,14 for Japan,13 for Europe,
	IEEE 802.11a/n/ac:
	12 For FCC , 4 for Japan 4, 18 for Europe
RF Output Max. Power	2.4GHz: 800mW
	5GHz : 500mW
Frequency Response flatness	±2dB over operating range
Receiver Sensitivity	-92 dBm

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Environmental & Mechanical Characteristics

Operating Temperature	0 °C ~ 50 °C
Storage Temperature	-20 °C ~ 60 °C
Operating Humidity	10% to 80% Non-Condensing
Storage Humidity	5% to 90% Non-Condensing
Antenna	Built-In
Power Supply	110 – 220V AC Power; 12 VDC, Support 802.3af /at Compliant , Power Over Ethernet
Unit Dimensions	TBD (mm) (Width x Depth x Height)
Unit Weight	TBD
Form Factor	Ceiling/ Wall Mountable
Certifications	TBD

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