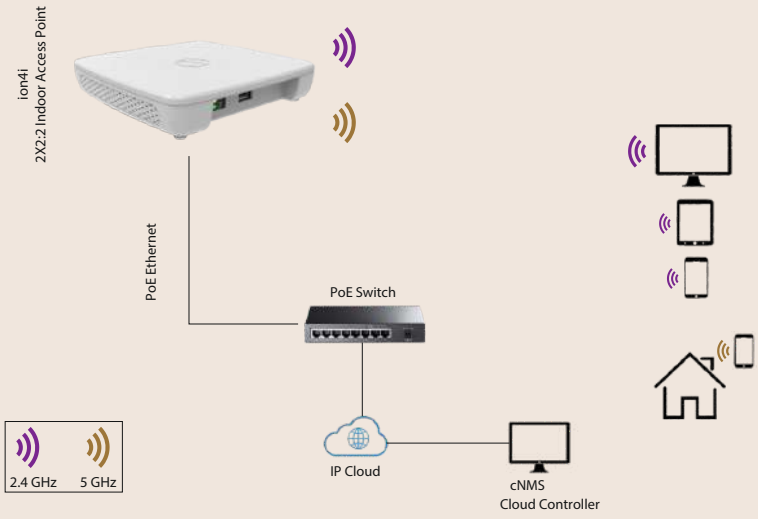
Wi-Fi 5
Dual Band | 2x2:2
Indoor Access Point
ion4i

- IO Indoor Access Point is uniquely designed for high performance, next generation networks based on 802.11ac Wave 2 technology with integrated 2.4 and 5 GHz 2x2:2 MU-MIMO radios
- The Indoor Access Point provides throughput of up-to 867 Mbps on 5 GHz and up to 400 Mbps on the 2.4 GHz band
- The Gigabit Ethernet port with 802.3af support allows powering the device with PoE switches

Best Performance - All the Way

- Simultaneous data transmission to multiple devices
- Maximized data throughput
- Improved network efficiency
- Up link and down link performance improvement
- Advanced location and indoor way finding
- Proximity based push notification capabilities
- Ability for businesses to leverage mobility context to develop applications that deliver enhanced user experience and increase the value of wireless networks for organizations



Unmatched Performance

Mesh Coverage

The entire Wi-Fi network functions on 802.11s Mesh Technology. One or more Access Point can act as the controller (or Mesh root). With unlimited number of Agent nodes (or Mesh satellites) connected with each other or the Mesh root, the mesh network becomes highly scalable.

Band Steering

In highly congested environments, the Access Point automatically moves dual band client devices onto the wider 5GHz band for faster connections.

MIMO

Multiple Input and Multiple Output: Dual band concurrent operation in 2.4GHz and 5GHz bands and multiplies capacity by simultaneous transmission to multiple devices making this one of the fastest indoor Access Point options available in the market.

Easy Installation

Configurable in both thick and thin modes. Implying, these APs can be easily configured and managed as standalone or using iCon Cloud or server based cNMS solution.

Antenna

Integrated Omni-directional Antennas Antenna gain: 4.5 dBi for 5 GHz, 4 dBi for 2.4 GHz

Technical Specifications

Wireless

Wi-Fi Standards	802.11a/b/g/n/ac/ac Wave 2
Radio Mode	2x2 MU-MIMO with 2 spatial streams
Radio Frequency Band	Supports full 2.4 GHz & 5 GHz ISM frequency bands
Peak Throughput	Up to 1.27 Gbps (867 Mbps for 5 GHz and 400 Mbps for 2.4 GHz)
Max Transmit Power	27 dBm for 2.4 GHz , 27 dBm for 5 GHz (will depend on country specific guidelines)
Receiver Sensitivity	- 97 dBm (for MCS 0)
Channel Size	20/40/80 MHz
Modulation Schemes	Supports up to 256 QAM
User Support	128 on 5 GHz and 64 on 2.4 GHz
Processor	Qualcomm IPQ4029 SOC
Power	IEEE 802.3af PoE
Max Power Consumption	12 W
Interface	1 X 10/100/1000BASET Ethernet
Antenna	Integrated Omnidirectional Antennas
Antenna Gain	4.5 dBi for 5 GHz, 4 dBi for 2.4 GHz

High Level features

WAN Protocols: Static IPv4/v6, DHCP client v4/v6

Band Steering, Load Balancing, Channel Bonding

WDS and MESH Support

Auto Channel Selection

Intelligent RF control plane for self healing and self optimization

Ability to simultaneously serve clients and monitor RF environment

Radio Resource Management for power and channel

Management: Standalone (via GUI) or through appliance based WLC and EMS or cloud based

16 SSID per Radio

QOS 802.11e WMM

802.11r fast roaming and fast handover

Bandwidth Shaping per SSID

Maximal ratio combining (MRC) and beamforming support

802.11w Protected Management Frames (PMF) support

Advance Power Save (U APSD)

VoIP support

Security

WPA Personal, WPA2 Personal, WPA2 Enterprise, EAP Type (EAP TLS, EAP TTLS/MSCHAPv2, PEAPv0/EAP MSCHAPv2, PEAPv1/EAP GTC, EAP SIM, EAP AKA, EAP AKA Prime, EAP FAST), Protected Management Frames

VPN pass through

IP Security, (IPSec), PPTP, IP Filtering

Layer 2 Tunnelling Protocol (L2TP/LWAP/AMQPS/ GRE)

Flexible guest access with device isolation

Captive portal and guest accounts

Rogue access point detection and prevention (WIDS & WIPS)

Hidden SSID in beacons

MAC address authentication

X.509 digital certificates

Support for locally significant certificates using Public Key Infrastructure(PKI)

Safety

- Safety Protection as per IEC 60950 and IEC 60215
- Electrostatic Discharge Immunity as per IEC 61000-4-2, Contact L2 and Air Discharge, L3 Level
- DC Surge Immunity as per IEC 61000-4-5, Level 2 (power port + signal port)
- Electrical Fast Transient/Burst Immunity as per IEC 61000-4-4, Level 2
- Radiated susceptibility as per IEC 61000-4-3 Level 2
- Conducted Susceptibility as per IEC 61000-4-6, Level 2
- Bump and vibration as per QM333

Physical & Environmental

Enclosure	Two piece enclosure with ABS top and bottom body
Dimensions	175 X 175 X 37 mm or 6.89 X 6.89 X 1.46 inches
Weight	0.50 kg
Mounting	Tabletop, wall and ceiling
Visual Indicators	RF and Power LEDs
Operating Temperature	-15ºC to 50º C
Certifications	FCC Class B, CE, Wi-Fi Certified Passpoint 2.0

Order Information

MODEL NUMBER	PRODUCT DESCRIPTION
ion4i	IO Wi-Fi 2x2 Indoor Access Point with Integrated 4 dBi Omni Antenna

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