Technical Specifications

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	802.11 b/g/n Radio	802.11 a/n/ac Radio
Frequency bands *	2,400–2,4835 GHz, 13 channels	
Bandwidth	20/40MHz	
Data Rates per chain	802.11n: MCS0 – MCS7 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps 802.11b: 1, 2, 5.5, 11 Mbps	802.11n: MCS0 – MCS7 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps 802.11ac: MCS0 – MCS9
Antennas	4.5dBi , 3 x Internal Antennas	5dBi , 3 x Internal Antennas
Max Tx Power at antenna port	19 dBm*	20 dBm*
Tx/Rx Streams	3x3 MIMO with 3 spatial streams	
Throughput	Up to 450 Mbps	Up to 1300 Mbps
LAN Interface	1 X 10/100/1000 Base TX Ethernet Port (with Auto MDI / MDIX)	
Power Requirements	IEEE 802.3af compliance (802.3at supported) Power adaptor (12VDC/1.25A)	
Max Power Consumption	<12.9 W	
Weight	350gr net	
Humidity(non-condensing)	Operating: 5% to 90% typical	
Temperature Range	Operating: 0ºC to 40ºC Storage: -20ºC to 60ºC	
Dimensions	Diameter: 160mm , Height: 38mm	
Directives	RoHS	
MTBF	Over 280k hrs.	
Max concurrent users	**Open**	395
	WPA2	265
	WPA2+open	397

* Frequency selection and power may be restricted to abide by regional regulatory compliance laws.

Notes

- Customers are responsible for verifying the approved frequency channels in their country as well as verifying the approved maximum conducted power in their country
- The maximum conducted power (EIRP) limitation may vary by channel and according to individual country
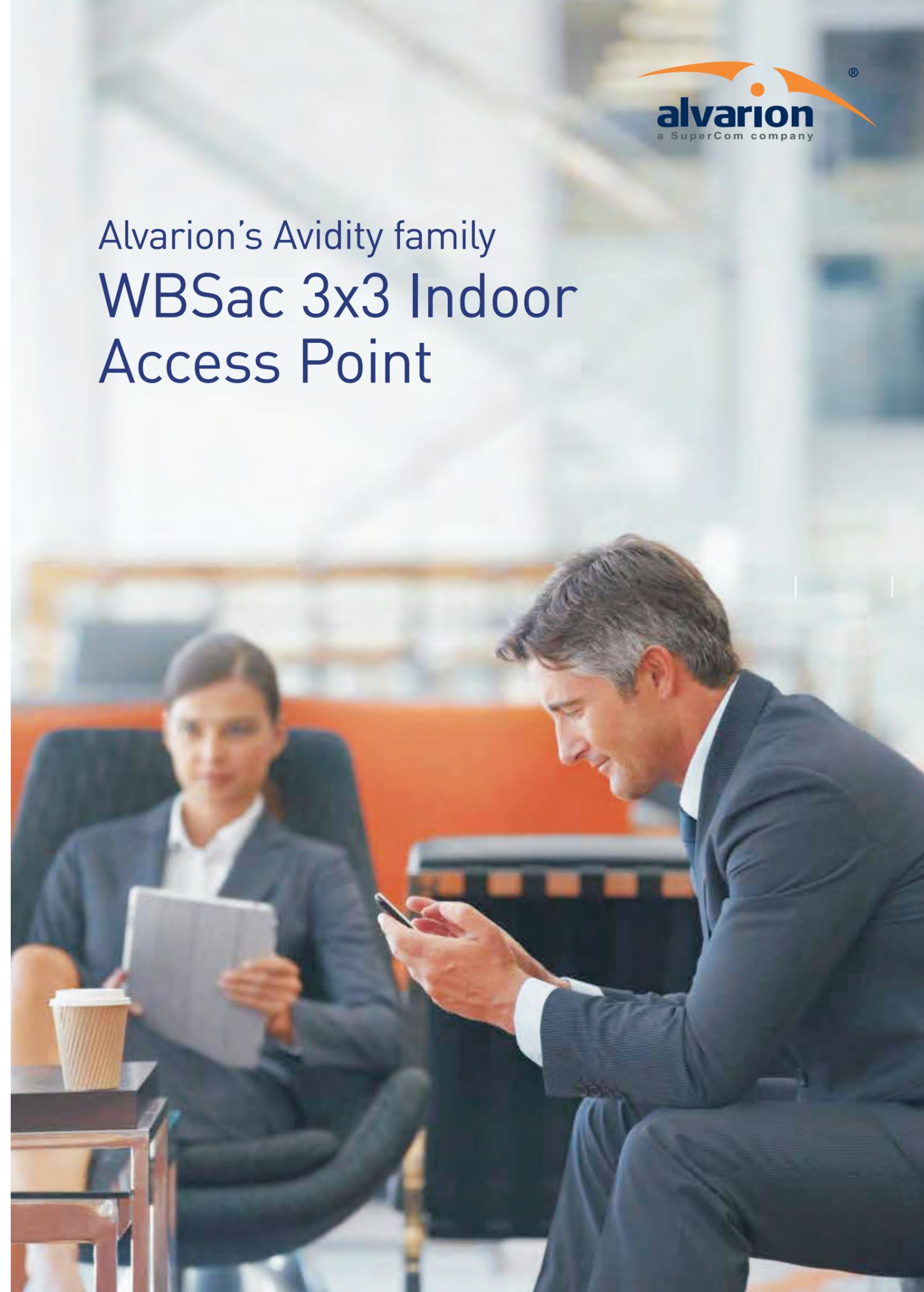- The maximum TX power can be manually reduced, please refer to user manual for details

Ordering Information

17402303	**WBSac-2450-3x3-UN**	Wi-Fi dual band Indoor Access Point, 802.11ac 3x3:3 operating at 2.4 GHz and 5 GHz bands concurrently, 6 internal OMNI antenna, 0 to 40C operating temperature, Wall-mount or Ceiling-mount, AC/DC power supply, CE compliant
17402302	**WBSac-2450-3x3-EU**	Wi-Fi dual band Indoor Access Point, 802.11ac 3x3:3 operating at 2.4 GHz and 5 GHz bands concurrently, 6 internal OMNI antenna, 0 to 40C operating temperature, Wall-mount or Ceiling-mount, AC/DC power supply, ETSI and CE compliant

About Alvarion Technologies

Alvarion Technologies is a global provider of autonomous Wi-Fi networks designed with self-organizing capabilities that enable constantly optimized performance. We are guided by our belief that the sustainability of any network stems from the combined strength of its elements. We have developed an approach that is transforming Wi-Fi from a "dumb pipe" into a goldmine of actionable data.
Alvarion designs solutions for Carrier Wi-Fi, Enterprise Connectivity, Smart City, Smart Hospitality, Connected Campuses and Connected Events that are both complete and heterogeneous to ensure ease of use and optimize operational efficiency. Carriers, Local Governments and Hospitality sectors worldwide deploy our intelligent Wi-Fi networks to enhance productivity and performance, directly and for the long term. With over 25,000 sites in over 95 countries, our experience and know-how has enabled us to become a proactive contributor to the evolution of the Global Communications Network. As in everything we do, our commitment to elevating the Wi-Fi experience is reflected in our offering.

Alvarion's Avidity family
WBSac 3x3 Indoor Access Point

WBSac 3x3 Indoor Access Point

The Avidity product family

Avidity refers to the accumulate strength of multiple elements. We named our product series Avidity as we believe a network should be based on multiple elements that together compose its structure.

The Avidity product series comprises indoor and outdoor platforms. Our indoor platform is built with an internal OMNI antenna. Our outdoor platform has two main antenna variants, external Omni antennas and internal sector antenna.

An evolution of Alvarion's high performance outdoor Access Point, the Avidity series is both compliant with IEEE 802.11ac and backwards-compatible with 802.11a/b/g/n. Our product evolution allows us to provide sustainable solutions that can handle today's capacity and performance needs.

Overview

Alvarion's versatile family of Access Points enables the construction of scalable Wi-Fi networks with Quality of Service (QoS), security and high service reliability.

WBSac 3x3:3 supports Passpoint™ with hotspot capability and includes a rich set of networking features for core integration with cellular and fixed-line operators. The units are controlled and managed by the Alvarion Arena controller and include a user-friendly web interface for configuration and monitoring.

Our WBSac is an evolution of Alvarion's high-performance Indoor Access Point. It is both compliant with IEEE 802.11ac and backwards-compatible with 802.11a/b/g/n. Our product evolution allows us to provide sustainable solutions that can handle today's capacity and performance needs.

The WBSac is designed for deployment in buildings, workplaces, universities, schools, hospitals, hotels and large stores. It features 2.4 GHz and 5 GHz concurrent radios, with Data rates of up to 1300 Mbps in 802.11ac 80 MHz Bandwidth and 3x3:3 MIMO.

Benefits, Features and Applications

- Self-configuring, plug-and-play deployment
- Dual-concurrent 802.11 (ac/n)- radios, dual-band operation technologies
- Built-in 4.5dBi@2.4 GHz&5 dBi@5 GHz,6 Internal OMNI antennas
- Three spatial streams combined, guarantees the highest throughput out of the total 1300 Mbps with high throughput and trustworthy coverage
- Integrated Power-over-Ethernet
- Centralized visibility and control via Alvarion's Arena controller or standalone deployments

WBSac 3x3:3 Indoor Access Point

![alvarion access point unit]

Firmware Information

- **Multiple SSID**
  Supports up to 6 virtual access points (VAP) per radio, with unique BSSID; each VAP can confgure its own security

- **Operational Modes**
  - Access point
  - Root AP
  - Mesh Point
  - CPE
  - Hotspot

- **WAN Type**
  - Static IP
  - Dynamic IP
  - PPPoE
  - DHCP

- **Advanced Features**
  - Transmission Power Control (TPS)
  - Closed System (Suppress SSID)
  - Transmission Rate Control

- **VLAN Ethernet Trunk**
  Map VLAN IDs to multiple SSID

- **STBC -** transmit multiple copies of a data stream across a number of antennas to improve the reliability of data-transfer

Security

- **Wireless Security**
  Open, WEP, 802.11i (WPA, WPA2)

- **Authentication**
  Pre-Shared-Key (PSK) and 802.1X-RADIUS (supporting EAP-TLS, EAP-TTLS, PEAP, EAP-AKA, and EAP-SIM)

- **Encryption**
  WEP, TKIP, AES

- **Network securities**
  Wi-Fi client isolation, Access Control List (ACL)

Management

- **Device Management**
  - HTTP / HTTPs Web Server
  - SNMP V3
  - Secure Shell (SSH)

- **SNMP**
  For multiple SSID, frmware upgrades. Easy for customers to integrate with SNMP-based controller

- **Hotspot with Integrated Controller for Full Users Management**
  Can use with/without Radius Server

Compliance Standards

- **Safety**
  - IEC/EN60950-1
  - UL2043 – Fire safety for installation in suspended ceilings materials

- **Radio**
  - FCC Part 15.247, 15.407
  - EN 300328
  - EN 301893
  - EN 301 489-1/17

Package Content

- AP unit
- Mounting kit
- AC/DC power supply
- Quick installation guide