

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	5.150–5.250, 5.250–5.350, 5.470–5.725, 5.725–5.850
Bandwidth	20/40MHz	20/40/80MHz
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
Omni Antennas**	5 dBi, 2x Dipole Antennas	7 dBi, 2x Dipole Antennas
Sector Antennas	Gain 11 dBi Beamwidth AZ: 85°H x 95°V; EL(typ.): 40°	13dBi AZ:75°H x 125°V; EL(typ.): 25°
Max Tx Power	23 dBm*	23 dBm*
Tx/Rx Streams	2x2 MIMO with 2 spatial data streams	
Throughput	Up to 300 Mbps	Up to 867 Mbps
LAN Interface	1 X 10/100/1000 Base TX Ethernet Port (with Auto MDI / MDIX)	
Power Requirements	IEEE 802.3at compliance	
Max Power Consumption	<20 W	
Weight omni and sector (unit only)	1.67	
Humidity (non-condensing)	Operating: 5% to 90% typical	
Temperature Range	Operating: -40°C to 60°C Storage: -40°C to 70°C	
Dimensions - L x W x H	Omni: 249 x 220 x 53 mm; Sector: 255 x 220 x 60	
Directives	RoHS	
MTBF	Over 280k hrs.	
Mounting Options	Mounting kit with tilt capability (should be ordered separately)	
Max concurrent users	Open 395 WPA2 265 WPA2+open 397	

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

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

17403303	WBSac-2450-0-UN	Wi-Fi Outdoor access point dual band 2x2 Omni Antennas, 802.11ac, Universal compliant.
17403302	WBSac-2450-0-EU	Wi-Fi Outdoor access point dual band 2x2 Omni Antennas, 802.11ac, ETSI compliant.
17403503	WBSac-2450-S-UN	Wi-Fi Outdoor access point dual band 2x2 Sector Antennas, 802.11ac, Universal compliant.
17403502	WBSac-2450-S-EU	Wi-Fi Outdoor access point dual band 2x2 Sector Antennas, 802.11ac, ETSI compliant.

About Alvarion Technologies

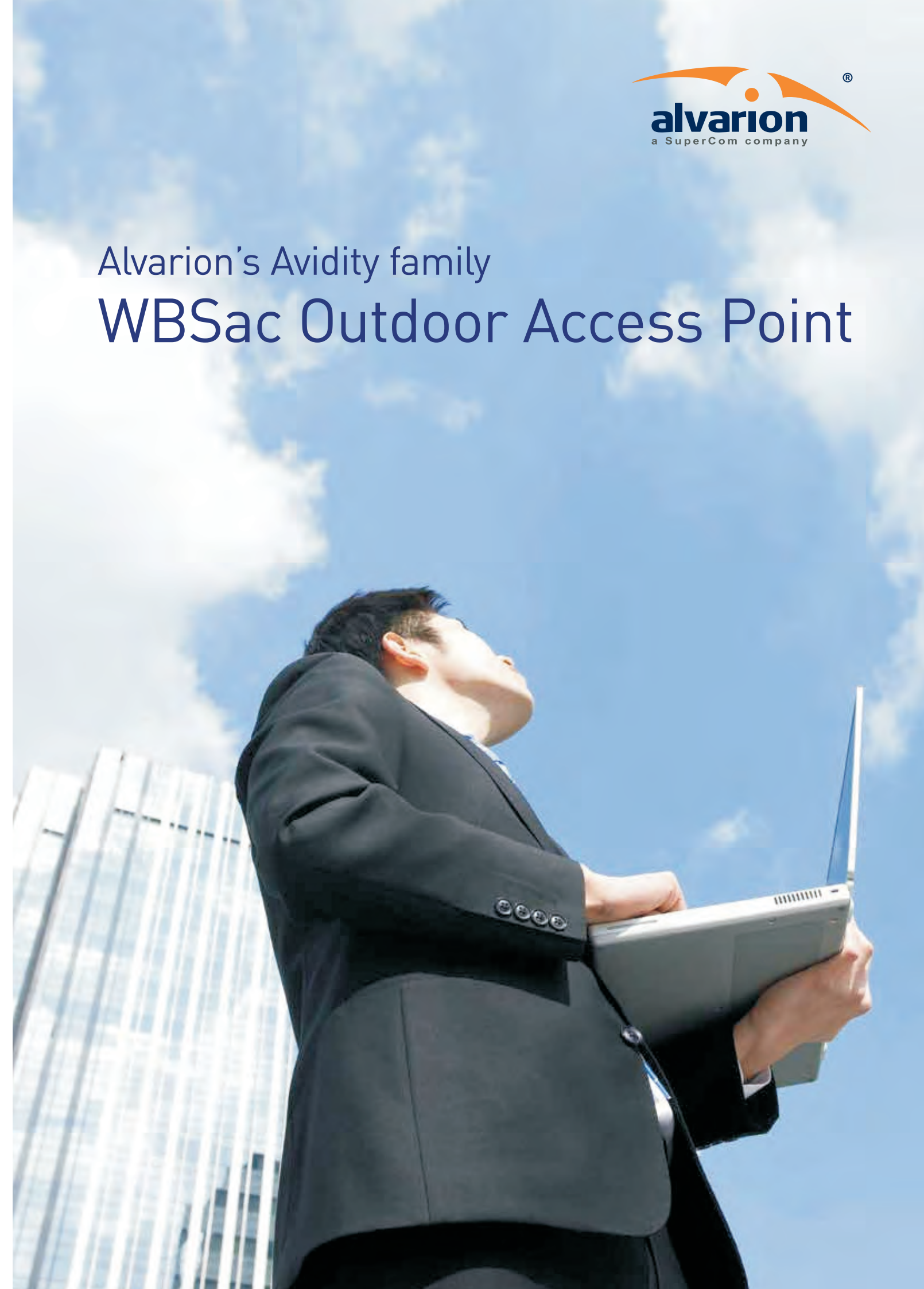
Alvarion Technologies is a global provider of autonomous Wi-Fi networks designed with self-organizing capabilities that enable constantly optimized performance. We are guided by our belief that the sustainability of any network stems from the combined strength of its elements. We have developed an approach 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.



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WBSac 0-216025-(A)



Alvarion's Avidity family WBSac Outdoor Access Point



WBSac Outdoor Access Point

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. It is designed with an extended temperature ruggedized enclosure, and IP67 rated which is suitable for various harsh outdoor conditions.

The unit has two main antenna variants, external Omni antennas and internal sector antenna. It 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.

Benefits, Features and Applications

- Self-configuring, plug-and-play deployment
- Dual-concurrent 802.11 (ac/n)- radios, dual-band 2x2:2 MIMO operation technologies, up to 867 Mbps data rate
- Equipped with External Omni or internal Sectoral antenna
- Integrated Power-over-Ethernet (PoE)
- Centralized visibility and control via Alvarion's Arena controller or standalone deployments
- Enhanced receive sensitivity / transmit power performance enables self-optimizing and self-healing algorithm

WBSac Outdoor Access Point



Firmware Information

- **Multiple SSID**
Supports up to 6 virtual access points (VAP) per radio, with unique BSSID; each VAP can configure its own security
- **Operational Modes**
 - Access point
 - Root AP
 - Mesh Point
 - CPE
- **WAN Type**
 - Static IP
 - Dynamic IP
 - PPPoE
 - DHCP
- **Advanced Features**
 - Built-in DHCP Server
 - Transmission Power Control (one dB per step)
 - Closed System (Suppress SSID)
 - Transmission Rate Control
 - Spanning Tree Protocol
- **VLAN Ethernet Trunk**
Map VLAN IDs to multiple SSID

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)
- **VLAN Management**
Can manage the AP through VLAN ID

Other Prominent Features

- **IEEE 802.11h (DFS & TPC)**
Enables worldwide operation through support for standards-based Dynamic Frequency Selection (DFS) and Transmission Power Control (TPC)
- **Hotspot with Integrated Controller for Full Users Management**
Can use with/without Radius Server
- **STBC -** transmit multiple copies of a data stream across a number of antennas to improve the reliability of data-transfer

Compliance Standards

- **Outdoor conditions**
IP67 ruggedized enclosure with Extend temperature range
- **Safety**
 - EN60950-1/22
- **Radio**
 - FCC Part 15.247, 15.407**
 - EN 300 328
 - EN 301 893
 - EN 301 489-1/17
- **Package content OMNI**
 - AP unit
 - 2 x 2.4GHz N-type Omni antennas
 - 2 x5GHz N-type Omni antennas
 - Mounting kit
 - PoE power supply
 - Quick installation guide
- **Sector**
 - AP unit
 - Mounting kit
 - PoE power supply