DATA SHEET

Outdoor 1200M 802.11ac Waue2 Access Point

AXILSPOT

MODEL： AIP10

Delivering Ultra-High Capacitym, Coverage, Reliability with Rscan Smart Antenna Technology.

HIGHLIGHTS

- Latest 802.11ac Wave2 technology with data rate up to

   1.2Gbps

- Built-in Rscan smart antenna, optional external antenna

- 1KM LOS wireless cover range

- Supports up to 400+users

- Layer 7 Application Fingerprinting and QoS

- Automatic RF Optimization with Spectrum Analysis

- Build-in Carrier & Enterprise Grade Security

- Stand-alone, Cloud and On-premises Centralized

   Management

- 802.3at PoE-In and PoE-Out supported

- Co-location with 3G/4G Base Station

- IP67 rated, weather and dust sealed

OVERVIEW

Axilspot Seal AIP10 Outdoor AP boasts superior Rscan smart antenna and the newest MU-MIMO technology, delivering high performance Wi-Fi access with up to 1.2Gbps to meet high capacity demands. Engineering with rugged enclosure (IP67 rated) and top-spec components, optimizing for long-range outdoor coverage and robust wireless connectivity. AIP10 offers a cost-effective, high capacity, and reliable outdoor wireless solution.

AIP10 is designed with the flexibility to function as standalone AP, or simplify centrally managed by Axilspot AC to reduce deployment and management effort. Ideal for high density public venues such as airports, conventions centers, plazas and malls, smart cities, and other outdoor scenarios.

FEATURES

Rscan Smart Antenna and MU-MIMO

AIP10 integrated with Rscan smart antenna and patented filter technology, optimizes the RF energy toward each client, providing the industry's best coverage and offer consistent, reliable, and fast wireless access connectivity. Meanwhile, AIP10 is equipped with 802.11ac Wave2 (MU-MIMO) technology. This allows AP to transmit multiple spatial streams to multiple client devices simultaneously, increasing the total throughput and capacity of the wireless network.

Superior Wireless Performance

The industry's leading 802.11ac outdoor access point is dedicated optimized for long range access coverage and highest possible throughput. Besides top-spec smart antenna and hardware designing, AIP10 also features powerful TurboRF technology, including airtime fairness, intelligent load-balancing, auto-RF adjustment, band steering and sticky client elimination etc.

AIP10 helps to create a more reliable and high-performance WLAN infrastructure, keep up with bandwidth demands fromthe growing number of wireless devices and applications.

Max User	400+
Max LOS Range(PC)	1KM
Max LOS Range (Smartphone)	800M
Max LOS Range(CPE)	5KM
MAX LOS Range(Bridge)	10-100KM

Enterprise Grade Security

AIP10 delivers industry-leading, end-to-end simplified security. It supports all the main-stream and standards- based security method, such as WEP, WPA-PSK, WPA-E, 802.1X, Active Directory integration, Social Login, Web Portal, SMS authentication etc.

Centralized Management

Beside standalone mode, AIP10 can be centralized managed by the Cloud/On-premises management system, which centralizes the management, provisioning, and monitoring of wireless networks, scaling from a small network to a larger and complex network with seamless upgradeability and simplicity.

Managed from the public or private cloud, you can control and monitor your Wi-Fi infrastructure from anywhere at anytime.

Flexible Antenna Assigning

AIP10 allows the software select of "built-in directional antenna" and "external antenna", to overcome various deployment challenges and simplify device installation and maintenance.

PoE Out Design

AIP10 supports 802.af/at PoE OUT, to directly provide power and backhaul to video surveillance equipment at the deployment location, reduces the difficulty of surveillance device installation, and lowers the cost on new cabling.

Rugged Industrial Design

AIP10 is designed and tested for salt spray, vibration, extreme thermal conditions, shock and dust and is IP67-rated, operated from -40° C to 65° C, making it ideal for any extreme environments.

Hardware Specs

Interfaces	1* 1000Mbps PoE 802.3at 1* 1000Mbps LAN/PoE out 1* Console 1* Reset button 4* External N-type antenna connectors
Indicators	Wireless signal Ethernet connectivity System status
Power supply	PoE (802.3at)
Power draw	≤20W
Mounting	Pole Mount, Wall Mount
Dimension (L*W*H)	312*258*63mm

RF Parameters

Frequency bands	Dual concurrent operation in 2.4 and 5 GHz bands
Wi-Fi standards	IEEE 802.11ac/n
PHY data rates	1200Mbps, 2*2 MIMO/MU-MIMO
Tx Power	≤27dBm
Minimum Rx sensitivity	-100 dBm
Antenna	Integrated 14dBi smart antenna (Sector)
Horizontal Beamwidth	80° (-3 dB)
Vertical Beamwidth	30° (-3 dB)
Operation Mode	AP, Client, WISP, Repeater, Router

Software Features

Wi-Fi radio	Enable or Disable
BSSIDs	32
User isolation	Enable or Disable
Security	WEP, WPA-PSK, WPA-E, 802.1X, Active Directory integration, Social Login, Web Portal, SMS authentication etc.
VLAN	Separate VLAN for management, SSID and VLAN Binding, Wireless Trunk
Automatic Transmit Power and Channel Control	Supported
Band Steering	Supported
Airtime fairness	Supported
Fast Roaming	Supported
Interference Mitigates	Supported
Probe Suppression	Supported
Bandwidth Control	Supported
QoS	Supported

Multicast to unicast Conversion	Supported
Data rate control	Automatic/Manual
Auto Bridge Distance	Supported
Tools	TCPdump, Link Test, Channel Scan

Other

Certification	CE/FCC/ROHS
Protection rating	IP67
Environmental conditions	Operating Temperature: -40°C ~ 65°C Storage Temperature: -50°C~ 75°C Operating Humidity: 5% ~ 100% non-condensing Storage Humidity: 5% ~ 100% non-condensing 6KV lightening protection, 15KV ESD Wind Loading: 150mph