

DATA SHEET

900M 11AC Wireless Bridge



AXILSPOT

MODEL: AIP5E

HIGHLIGHTS

- ◆ 900Mbps 802.11ac performance, Wired-like Speed
- ◆ Maximum Bridge Distance Up to 10-100KM with optional external antenna
- ◆ Sophisticated LED-based aiming and aligning tools
- ◆ 2*G Ports, 1*POE-In and 1*PoE-Out
- ◆ Easy installation, deployed with or without controller
- ◆ Ruggedized Design for outdoor conditions: -40°C to 60°C operating temperature



OVERVIEW

Axilspot AIP5E 11AC wireless bridge is designed for harsh outdoor conditions, perfect for ISP to quickly extend broadband backhaul, or offer wireless services where fixed line access resource is limited. Service providers can reliably provide best in class wireless backhaul performance at ranges up to 10+ kilometers.

The AIP5E adopts pole-mount design for easy installation and maintaining, and works at 5GHz frequency. Through enhanced RF technology, the AIP5E offers 900Mbps RF capacity. Equipped with 2 GE ports, the main port supports 24V Passive POE, the sub port can power other devices. Revolutionary hardware design, along with external Sector or Omni antennas, to provide stable throughput for P2P/P2MP long distance transmission. The AIP5E is also ideal for schools, warehouses, factories and other places looking to extend network across remote buildings and where Ethernet is just not possible.

FEATURES

Powerful RF Performance, Ultra Long Distance Bridge

The 802.11ac Gigabit Wi-Fi along with Gigabit Ethernet enabling fast data forwarding without any bottleneck, is ideal for high-bandwidth hungry scenario. High output power 27dBm (per chain) radio and high gain external antenna, along with fine-tune receiving sensitivity, all attributed the bridge distance up to 10-100KM (LOS Scenario).

Patented TDMA (Time Division Multiple Access) Technology also improves throughput and reduces latency, providing higher network capacity and stability.

Ideal For Outdoor Harsh Environments

Rugged, carrier-grade AIP5E are designed to meet the needs of industrial applications like Hub, Mining, Enterprise, School and Construction. Using industrial - grade components and waterproof/ dustproof housing design for stable operation in extreme outdoor conditions. In addition, 15KV ESD and 6KV lightning protection are supported. Professional hardware design to prevent equipment damage from static electricity and lightning to enable stable work under extreme temperatures environments (-40 ° C~60 ° C).

Convenient Manage and Maintain

Transmitting power and data over Ethernet cable at the same time to enable device deployment in difficult electricity-taking locations. The inbuilt power module supports remote device reset, making installation and configuration more convenient and flexible.

Smart RF optimization

AIP5E wireless QoS function prioritizes mission critical data, maximize the reliability and performance of delay-sensitive applications, such as VoIP and Video over other 802.11 networks. Advanced RF optimization with automatic channel and power level selection, to reduce interference. AP can recognize various channels being used and automatically switch to the best available channel to provide very high throughput over high-bandwidth, long-range links even in the presence of interference.

Centralized Management

Unified management platform configures all wireless outdoor CPE and station series products, reduces the workload of manage and maintain of large-scale deployment.

Hardware Specs	
Interfaces	1*1000Mbps PoE 1*1000Mbps LAN/PoE out 1*Reset button
Indicators	PWR, Main, LAN, 4 signal strength indicators
Power supply	24V Passive PoE
Power draw	≤12W
Mounting	Pole Mount, Wall Mount
Max. bridge distance	2km, external 6dBi omni antenna 5km, external 12dBi sector antenna 10-100km, external ultra-high gain directional antenna
Dimension (L*W*H)	292*85*33mm

RF Parameters	
Frequency bands	5GHz
Wi-Fi standards	IEEE 802.11ac
PHY data rates	900Mbps,2*2 MIMO
Antenna	external antenna
Output power	≤27dBm
Operation mode	AP, Client, WISP, Repeater, Router

Software Features	
Wi-Fi radio	Enable or Disable
BSSIDs	16
User isolation	Enable or Disable
Wireless security	AES 128-bit encryption
VLAN	Separate VLAN for management, SSID and VLAN Binding, Wireless Trunk
Data rate control	Automatic/Manual
Auto Bridge distance	Supported
Tools	Antenna alignment, Link Test, Channel Scan

Other	
Certification	CE/FCC/ROHS
Protection rating	IP65
Environmental conditions	Operating temperature: -40°C ~ 60°C Storage temperature: -50°C~ 75°C Operating humidity: 5% ~ 95% non-condensing Storage humidity: 5% ~ 95% non-condensing 6KV lightning protection,15KV ESD