



Two-in-one device with optional stand-alone or combined TDOA and Wi-Fi capabilities

Overview

The AeroScout Location Point delivers a full-featured WLAN Access Point with built-in location capabilities, for flexible use in harsh outdoor and other rugged environments. The Location Point comes in several configurations and NEMA-rated enclosures for various usage scenarios, with integrated 802.11 Access Point and TDOA Location Receiver. This solution combines outdoor networking with location-enabled enhancements, delivering a simple one-stop solution for WLAN and Wi-Fi-based Active RFID applications.



AeroScout Location Point Benefits:

- Rugged design for harsh environments
- Simplified infrastructure
- Flexible power and network interfaces
- Wide range of antenna options
- Easy mounting options

Key Features

Stand-alone Service

The Location Point is a “two-in-one” device with a stand-alone or 802.11b/a access point combined with an AeroScout Location Receiver, providing both Time Difference of Arrival (TDOA) location as well as standard Wi-Fi service on the local area network.

Wireless Location Capabilities

Wireless location capabilities provide communication with AeroScout’s market-leading Tags and TDOA location engine, without the need for dedicated cabling across the entire coverage area.

Integrated Access Point Capabilities

The Location Point provides both wireless location transmissions and standard Wi-Fi bridged access point service from the same position – without the need for dedicated cabling for each individual service.

Root Bridge Capabilities

The Location Point can also act as a root bridge 802.11 access point, enabling communication with several other Location Points (This configuration requires cable connectivity between the unit to the local area network).

Designed for Harsh Environments

Rugged location points are housed in a NEMA 4x (IP66) rated enclosures, ensuring that they are water-tight, dust-tight, UV protected and corrosion and moisture proof in both indoor and outdoor settings. In addition, these units are verified to work in a wide range of temperatures, from -30°C to 60°C (-22°F to 131°F), with integrated heat sinks for consistently high temperatures.



Simplified Infrastructure

The Location Point is an all-in-one device, with combined Wi-Fi Access Point, Bridge and TDOA Receiver in a single unit. This eliminates the need for separate devices to provide WLAN data coverage and TDOA-based location. Instead, customers can now install a single device that serves both purposes.

Flexible Power Interface Options

The rugged location points can support AC power (for all configurations) or provide power connection provisioned through the 802.3af compliant standard Power over Ethernet (for standalone or root bridge configurations). The unit includes an external AC power switch with semi automatic high current protection.

Flexible Network Interface Options

In addition to standard Ethernet network connectivity, the rugged Location Points can also be supplied with a fiber optic interface in stand-alone configurations.

Antenna Options

Antenna options include various antenna types with gain ranging between 2 to 8 dbi. Directional and omni-directional antennas and integrated diversity antennas are also available. 5Ghz antennas for 802.11a support are also available.

Additional Options

Mounting options include a wall mounting kit and a pole mounting kit. Further options include antenna cables and power adapters to fit a wide variety of installation needs.

Location Point Specifications

LOCATION RECEIVER PERFORMANCE

Outdoor range: Up to 200m (600 feet)

Indoor range: Up to 60m (180 feet)

- Over 300 measurements processed per second per receiver cell
- Patent pending signal processing algorithms

PHYSICAL DIMENSIONS

Dims: 380mm x 280mm x 180mm (15" x 11" x 7")

Weight: 4360g (9.6lbs) Location Receiver Only; 6820g (15lbs) Wireless Configuration

RADIO

802.11b radio compliant (2.4 GHz)

Non Stand-alone Models: Additional dual-band 2.4 Ghz 802.11b and 5 Ghz 802.11a Cisco 1242 AP (visit Cisco website for further specifications)

ANTENNA INTERFACES

Antenna interfaces: 6 external N type antenna interfaces. 4 for 2.4 Ghz and 2 for 5 Ghz

- All antenna interfaces include lightning protection
- Number of interfaces depends on the required configuration (bridging and diversity)

NETWORK INTERFACES

2 ethernet (Rj45) connections

Optional fiber optic connection

ENVIRONMENTAL SPECIFICATIONS

UV protection

Temperature: -30°C to +60°C (-22°F to +140°F)

Humidity: 0 to 95%, non-condensing

Water proof: IP66 (water tight and dust tight), NEMAx4 enclosures

ELECTRICAL

110/220V AC external power connection

Power over ethernet: 802.3af compliant (not available in all configurations)

CERTIFICATION

Radio: FCC Part 15, sub-part C class B, sub-part B
EN 300-328, EN 300-330, EN 301-489

Safety: (pending) CE, cTUVus

WARRANTY

One year limited warrantee

*Optional

Ordering Information

For ordering and pricing information on the AeroScout Location Point, contact AeroScout at info@aeroscout.com and refer to the AeroScout Location Point line of products (LP-1000).

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