



TRIMBLE AP+ AIR FAQ

FREQUENTLY ASKED QUESTIONS

1) What is the Trimble AP+ Air?

The Trimble AP+ Air is a small format GNSS-inertial OEM solution designed to provide system integrators with best-in-class GNSS multi-frequency positioning technology combined with best-in-class Inertial Measurement Unit (IMU) orientation for Direct Georeferencing of airborne mapping sensors.

2) What differentiates the AP+ Air from the current AP Air platform?

With a 54% smaller footprint, 64% lower weight, and 75% less power consumption, the AP+ Air is a more compact platform that addresses the needs of all airborne payloads, regardless of platform (manned or unmanned).

3) What are the AP+ Air models?

The AP+ Air models determine the accuracy of the product. While positioning accuracy remains the same across all products, the inertial sensors used dictate the orientation performance. The entry-level product in terms of accuracy is the AP+ 18. It is available in two forms: AP+ 18 using the onboard IMU, and the AP+18 EI using the onboard and external IMU. The models AP+ 30, AP+ 50, and AP+ 60 all use the same onboard IMU but different external IMU's to achieve higher orientation accuracy. The AP+ Air product is highly configurable making it ideal for payload manufacturers.

4) Why do I need dual IMUs when the external IMU provides superior accuracy?

The dual IMU system provides the ability to build scalable payloads and address all applications. It enables the use of a simple gimbal mount without the need for a direct interface to the mount itself, or it can be used in post-processing to directly georeference multiple sensors that might not be rigidly attached to each other.

5) Does it support GNSS heading aiding (GAMS)?

Yes, two GNSS antenna inputs are included to provide GNSS heading aiding. GNSS heading aiding is ideal for use on slow moving platforms (blimps) or hovering applications as a means of fast initialization and to bound heading error drift. For most applications, heading aiding is only required with the AP+ 18. Our experts will help you analyze your application to determine if and when it is required.

6) What is the difference between the AP+ Air and the APX-UAV products?

The AP+ Air products are designed for Direct Georeferencing on any airborne platform with any type of mapping sensor, while the APX-UAV products are designed to support UAV applications only.

7) Does it support RTK?

Real-time RTK positioning is available through a separately purchased option.

8) Can I enable Trimble CenterPoint® RTX™?

Yes, the Trimble CenterPoint RTX real-time positioning service is offered as a subscription directly through TPS (Trimble Positioning Service). Click [here](#) for more information.

9) Is the AP+ Air supported in POSPac?

Yes, the AP+ Air is supported in POSPac MMS 8.5 or higher. With its variety of tool sets, including the ability to map without a base station using the post-processed CenterPoint RTX service, and calibration of IMU to sensor boresight, POSPac MMS plus the AP+ Air is the ultimate solution for highly accurate and efficient airborne Direct Georeferencing. For more information please visit our [POSPac page](#).

10) How can I purchase the AP+ Air?

The Trimble AP+ Air is available through Applanix distribution channels. Please contact the [sales representative](#) for your region.