

SEPTENTRIO TO SUPPLY GNSS OEM RECEIVER BOARDS FOR NEW WingtraOne PPK VTOL MAPPING DRONE

Leuven, Belgium - 27 February 2018 - Belgian GNSS receiver manufacturer Septentrio is delighted to announce selection by Swiss drone manufacturer Wingtra to supply GNSS OEM receiver boards and PPK processing software for the newly launched WingtraOne PPK drone. The combination of VTOL (vertical take-off and landing) technology and a high-spec PPK (Post-Process Kinematics) brings wide-area coverage at ultra-high precision.

“With the WingtraOne PPK, we can offer a world first in drone photogrammetry—wide coverage at ultra-high precision. In a single one-hour flight, the WingtraOne can cover 130 ha (320 acres) delivering mapping with GSDs below 1 cm/px (0.4 in/px) with absolute accuracy down to 1.27 cm (0.5 in)”, said Armin Ambühl, CTO of Wingtra. He continued, “WingtraOne’s advantage is twofold: it combines VTOL with the latest PPK technology from Septentrio. With VTOL we can offer the best of both worlds: multirotors and fixed-wings. Vertical take-off and landing means hands-free operation and a smoother ride for the on-board camera payload. Secondly, efficient flying in fixed-wing mode means far greater coverage than any comparable multirotor.”

Gustavo Lopez, Product Manager at Septentrio said, “We are proud and excited to be part of this innovative project with Wingtra pushing the boundaries of aerial photogrammetry. The WingtraOne incorporates our AsteRx-m2 UAS OEM board and, photogrammetry applications requiring high-precision, low-latency positioning are what it does best. The board is specifically designed for quick and easy integration and, with Septentrio’s world-first, multi-frequency PPK, cm-level precision can now reach the parts dual-constellation solutions feared to tread.”

Following a flight, the GNSS data of the WingtraOne is processed offline using Septentrio’s PPK software. This combines the drone data with correction data from a nearby reference receiver to get accurate cm-level geolocations for every photograph. The on-board high-resolution Sony RX1RII camera, AsteRx-m2 UAS receiver board combined with Septentrio’s PPK library and Pix4D photogrammetry processing software are together able to produce ground precisions of 1.3 cm (0.5 in) horizontal and 2.3 cm (0.9 in) vertical.

About Wingtra

Wingtra develops, produces and commercializes high precision VTOL drones that collect survey-grade aerial data. Wingtra entered the market in early 2017 and has been selling globally ever since. Recently the company has raised additional \$5.8M to meet the demand in 2018 and partnered with one of the biggest surveying equipment dealers in US - RDO Integrated Controls. More information about Wingtra on www.wingtra.com

About Septentrio:

Septentrio designs, manufactures and sells high-precision, multi-frequency, multi-constellation GPS/GNSS equipment for use in demanding applications. Septentrio products are used in a wide variety of industries including marine, construction, agriculture, survey and mapping, geographic information systems (GIS) and unmanned aerial vehicles (UAVs). Septentrio receivers deliver consistently accurate and precise GNSS positioning scalable to centimetre-level and designed to perform solidly in the most challenging environments. Septentrio receivers are available as OEM boards, housed receivers and smart antennas.

Septentrio is committed to providing products that are easy to use and straightforward to integrate into existing setups and workflows. A team of experienced application engineers in Europe, North America and Asia are on hand to assist users at every step of their integration journey and for the lifetime of the product afterwards. Septentrio is headquartered in Leuven, Belgium and has offices in Torrance, California, and Hong Kong as well as partners around the world. To learn more about Septentrio and its products, visit: www.septentrio.com.

###