

Embention Partners with Sagetech to Achieve Full Situation Awareness in Unmanned Flight

White Salmon, WA, June 29, 2020 - Sagetech Avionics, the world's leading developer and manufacturer of miniature aviation transponders, today announced a partnership with Spanish company Embention, a leading supplier of critical components for unmanned aerial vehicles (UAVs). Adding Sagetech's transponders to its other aviation solutions enable Embention to offer its customers full certified situational awareness during the piloting of UAVs.

"We're thrilled to announce a partnership with Embention to provide the smallest, most durable avionics suite for drone manufacturers," said Sagetech Avionics CEO Tom Furey. "The integration of reliable systems like Embention's Veronte Autopilot and Sagetech Avionics' XP or MX transponders with ADS-B, ensure the safe integration of unmanned aircraft in congested airspace, over long-range, beyond line of sight, and at night."

Automatic Dependent Surveillance-Broadcast (ADS-B) is a standard surveillance technology which enables an aircraft's position to be tracked by other aircraft and Air Traffic Control ground stations. Using ADS-B Out, each aircraft periodically broadcasts information about itself, such as identification, current position, altitude and velocity, through an onboard transponder. With installation of a receiver (ADS-B In) a manned or unmanned aircraft can gain a clear picture of traffic in its surrounding area. Sagetech Avionics' MX platform is the only UAS transponder with integrated ADS-B In and Out technology.

"ADS-B technology is the go-to method of ensuring safe utilization of airspace," added Furey. "We are pleased to make this capability simple and easy to use through plug-and-play compatibility with advanced autopilots like the Veronte. We're excited to provide advanced safety systems and world-class flight control in an integrated suite of low size, weight and power airborne electronics."

Embention's choice of Sagetech transponders was in part due to their proven compatibility with its flagship solution, the Veronte Autopilot. Veronte is a miniaturized, high reliable, DO178C & DO254 compliant avionics system designed for advanced control of unmanned systems. Veronte is a small, compact system containing a state-of-the-art suite of sensors and processors combined with LOS and BLOS M2M datalink radio. Sagetech transponders integrate seamlessly with Veronte Autopilot providing the user with detect and avoid capabilities that automatically generate a repealing force surrounding the position of the aircraft. This repealing force will prevent the drone from entering restricted airspace and prevent collisions with other aircraft.

"The use of transponders and autopilots in compliance with aviation standards is a decisive step for drone integration within the controlled airspace," said Javier Espuch, Business Development Manager at Embention. In addition to providing vital tracking visibility and situational awareness, Sagetech transponder's unique miniature size and weight, combined with the small design of the Veronte Autopilot, drastically reduce overall drone weight, increase fuel capacity and time on station as compared to more traditional avionics equipment.

[About Embention](#)

Embention is a company specializing in the development of critical components for autonomous vehicles. Highlighting the Veronte Autopilot, developed in compliance with DO178C & DO254 for the control of drones, eVTOL, UGV, USV and hybrid vehicle layout.

With 60 employees and originating in Alicante (Spain) in 2007, the company is part of more than 500 drone projects in more than 70 countries and is rapidly expanding among the UAV & UAM industry. Embention is a worldwide reference in the unmanned aircraft industry, applying state-of-the-art and military technologies in the drone sector for Enabling Drones to Populate Our Skies. Learn more at: www.embention.com

[About Sagetech Avionics](#)

Sagetech Avionics is a technology company devoted to improving flight situational awareness and ensuring the safe integration of UAVs into manned airspace. We take pride in delivering the world's most reliable, certifiable miniature transponders to the civil and military aviation markets. Our products have dominated the market for nearly a decade, accumulating over 1.5 million flight hours in harsh combat environments. Sagetech transponders are standard or optional equipment on most production small and medium unmanned aerial vehicles (UAVs). Sagetech has been at the forefront of flight safety miniaturization since 2005, when we created the first miniature transponder suitable for use in small UAS.

Sagetech Avionics transponders are about the size of a business card, use as little as four watts of power and are as light as 100 grams. Members of the MX family include the pending TSO-certified MXS, with ADS-B In and Out for collision avoidance in national airspace, the innovative MXR miniature airborne Mode S interrogator, and the MX12B DoD AIMS-certified (pending) Mode 5 micro-IFF for small military UAS. Learn more at www.sagetech.com.