

CHALLENGE

In order for Pen Aviation to fly with 3x less energy than a battery powered UAV, low SWaP was important; however, so was thinking about the future state of the program. Pen Aviation had an immediate need for a Transponder but knew that regulations would eventually require a complete Detect and Avoid Solution.

SOLUTION

Sagetech's product offerings aligned perfectly with Pen Aviation's needs with their MXS TSO certified Transponder with ADSB-In/Out. Sagetech's roadmap also included a complete Detect and Avoid system that will eventually lead to future BVLOS flight. Sagetech's MXS is the only certified transponder available with ADSB In, unlike uAvionix Ping 200X.

RESULTS

Sagetech created the micro-transponder segment and will continue to build on their MX capabilities. The certified MXS is the cornerstone of Sagetech's Detect and Avoid (DAA) architecture which will support Beyond Visual Line of Sight (BVLOS) operations by their customers. Sagetech's DAA products will accelerate the next generation of UAV-based services for both defense and civil customers. Together with the MXS, Sagetech's ACAS-based DAA platform will provide the most advanced, certifiable DAA system for crewed and uncrewed aircraft with onboard, full power, low SWaP collision avoidance capability.

- MXS TSO certified transponder with ADSB In/Out
- Low SWaP, one box solution
- Detect and Avoid capability for safe airspace integration
- Cost effective

To learn more about our Systems Integration Services, please visit: [sagetech.com/commercial-solutions](https://www.sagetech.com/commercial-solutions)



Sagetech Avionics is an aerospace technology company empowering safe flight in crewed and uncrewed aircraft with certifiable situational awareness solutions.

Currently serving military and civil duty on most small to medium UAVs, Sagetech solutions are mission-proven and offer decades of program experience, certifications, and millions of flight hours to deliver maximum value over the life of an unmanned platform. Today, Sagetech is expanding its technology platform to create comprehensive, certifiable systems such as detect and avoid solutions.

Every day, Sagetech works in concert with its extensive ecosystem of OEM customers, technology partners, and resellers to ensure UAVs fly safer with Sagetech on board.



Follow Us: [in](#) [twitter](#) [youtube](#)

317 W Steuben St. | Bingen, WA 98605
[sagetech.com](https://www.sagetech.com) | sales@sagetech.com

©2022 Sagetech Avionics Inc.