Sagetech
AVIONICS

SITUATIONAL AWARENESS AVIONICS

CIVIL GOVERNMENT | DEFENSE & NATIONAL SECURITY | COMMERCIAL INDUSTRIES

CIVIL & COMMERCIAL
TRANSPONDERS

MILITARY IFF
TRANSPONDERS

DETECT AND AVOID

INTEGRATION SERVICES

CUSTOM ENGINEERING

Fly Safer With Sagetech.

Sagetech works in partnership to develop comprehensive crewed and uncrewed aircraft (UAS) situational awareness systems incorporating mission-critical transponders, software, and related technologies.

Every day, we collaborate with the world's most advanced UAV manufacturers to develop solutions for emerging challenges.

SERVING THE MISSIONS OF TOMORROW FOR:

- Defense and National Security

- Civil Government

- Commercial Industries

SOFTWARE SOLUTIONS

Proven Performance

1.5M+
FLIGHT HOURS

500+
UNCREWED
AIRCRAFT
PLATFORMS

40+
COUNTRIES

Committed To Safety & Quality.

OUR MISSION

To deliver low-SWaP certified avionics solutions that enable safe airspace integration.

OUR VALUES

- Integrity
- Quality
- Safety
- Customer Focus
- High Performance
- Stewardship

OUR VISION

Safe skies through advancing technology

OUR LEADERSHIP

Learn about our leadership team at
sagetech.com/leadership/

Our
Solutions

Civil Government

Fly Your Mission BVLOS with Sagetech.

Sagetech's situational awareness solutions are helping certified eVTOL manufacturing aircraft operating in controlled airspace.

Whether you need discrete components or a complete ACAS X solution, count on our mission-proven set of technologies to make your safety case and ensure integration within the National Airspace System (NAS).

Join the growing list of civil programs in energy, communications, government, and other mission critical applications that fly safer missions with Sagetech on board.

CIVIL BVLOS SITUATIONAL AWARENESS SOLUTIONS

- MXS Transponder with ADS-B In/Out
- ACAS Solutions (DAA & Collision Avoidance)
- Integration Services

APPLICATIONS

Police & Border Patrol | Risk Management | First Responders Crewed Rotorcraft Fire Agencies | High Altitude Pseudo Satellite and Balloons

Defense & National Security

Situational Awareness Solutions for Defense. Certified and Flying Worldwide.

For more than a decade, Sagetech micro transponders have flown more than 1.5M hours on a variety of UAS missions in demanding environments.

Sagetech provides world class support for Military programs worldwide, innovating solutions for Group(s) 1, 2, 3, 4, 5, including crewed missions and manned aircraft.

Innovative IFF solutions include man-portable passive Mode 5 Level 2B receivers for full battlespace situational awareness and Combat ID.

DEFENSE SOLUTIONS FOR YOUR NEXT MISSION

- MX Series – IFF Mode 5 DoD AIMS Mark XIIB certified with certified Mode 5 level 2B

- ACAS X Solutions (DAA & Collision Avoidance)

- Integration Services

Commercial Industries

Earn Certification Faster with Sagetech.

We're world leaders in the micro transponder market building a path to BVLOS with our certifiable detect and avoid collision avoidance technology.

COMMERCIAL SOLUTIONS

- MXS Transponders with ADS-B In/Out
- ACAS X Solutions (DAA & Collision Avoidance)
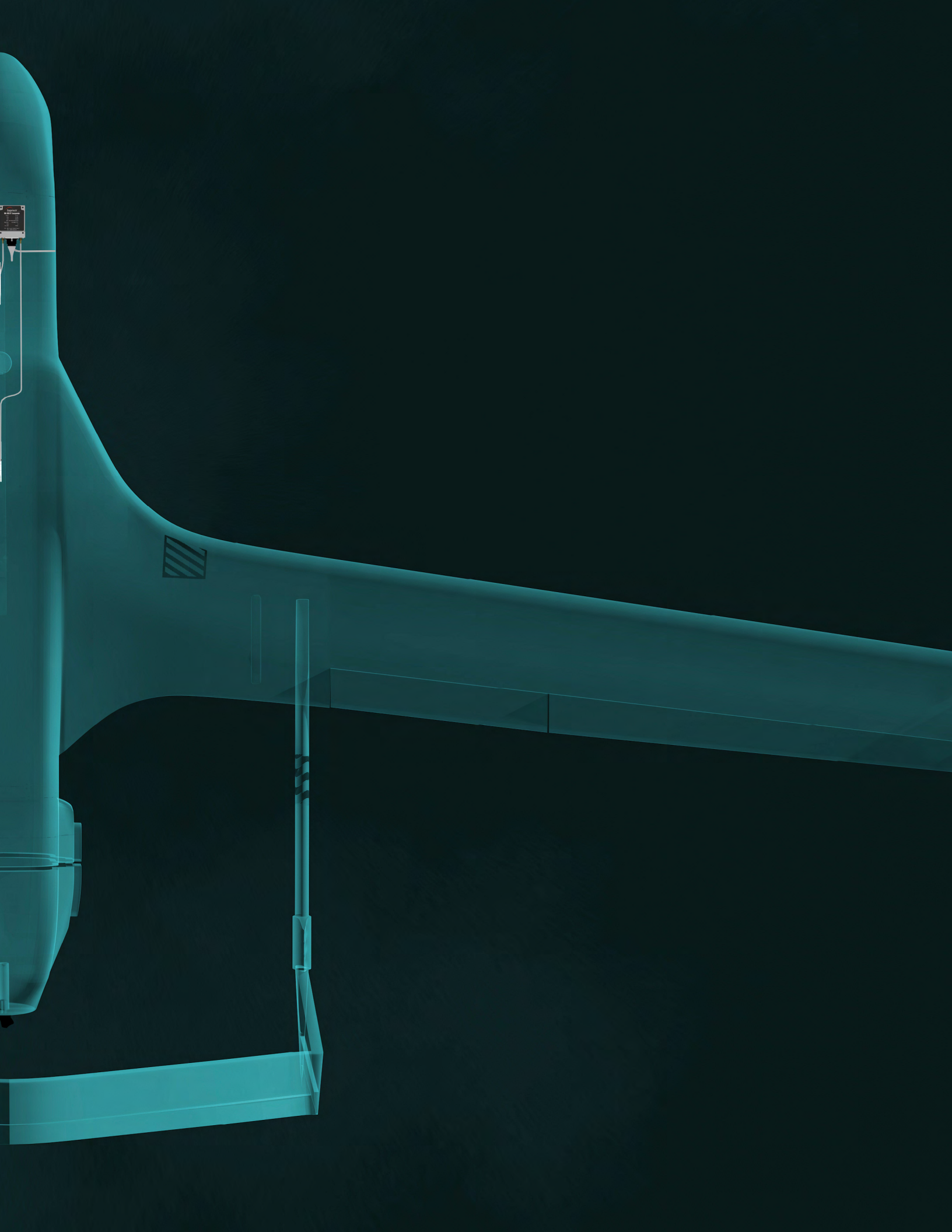- Integration Services

APPLICATIONS

UAM/AAM| Gliders | Infrastructure Inspection

Logistics and Delivery | High Altitude Aircraft

Commercial Agriculture | Experimental Aircraft

Our
Products

MX Series Transponders
MODE 5 IFF & MODE S TRANSPONDERS | CIVIL, COMMERCIAL & DEFENSE

Put Sagetech's long heritage of rugged-duty micro transponders to work for you with our next-gen MX Series.

These new transponders deliver everything you need for tomorrow's situational awareness programs—ADS-B In and Out, IFF Mode 5, detect and avoid, omni-directional surveillance, and other advanced functionality. See and be seen for enhanced safety.

Built from our mission-proven technology platform, our solutions serve as essential equipment on any uncrewed or crewed program.

Download the MX Series Datasheet at sagetech.com/resources/mx-series

MX12B MODE 5 IFF TRANSPONDER

WITH ADS-B IN AND OUT   DOD AIMS CERTIFIED

Sagetech's next-gen MX12B miniature transponder is the only micro IFF transponder fully compliant with DoD AIMS Mk XIIB specification. Packed with all the features your program needs, this unit is at least 93% smaller and 6x lighter than traditional military Mode 5 transponders.

DoD AIMS certified units, crypto emulators and a full line of accessories ship from stock or with minimal lead times.
The MX12B is the first transponder to be certified with M5L2B Out.

Upgrades to the MX12B are in progress to enhance support for mission-critical operations. Upgrades include integrated ACAS X, UAT receivers, Mode 5 Level 2B In and Mode C/S Interrogation.. Additionally, Mode 5 Interrogator is hardware capable, pending sponsorship.

This product is controlled for export under the International Traffic in Arms Regulations (ITAR). A license from the U.S. Department of State is required prior to the export of this product from the United States.

MXS MODE S TRANSPONDER

WITH ADS-B IN AND OUT   FAA TSO CERTIFIED

Sagetech's next-gen MXS miniature transponder provides Mode S and 1090 MHz ADS-B In/Out for worldwide compliance of your uncrewed system, all integrated in a single tiny package.

Featuring top and bottom monopole antennas, this transponder provides full coverage for the ultimate in visibility and safety.

MCX COMMON TRANSPONDER ADAPTER FOR THE MX12B

WITH MODE 5 LEVEL 2B OUT AND ADS-B IN AND OUT

Sagetech's MCX Common Transponder Adapter adapts the MX12B advanced micro-IFF with Mode 5 Level 2B Out and ADS-B In and Out to existing military IFF trays, allowing a simple upgrade path and avoiding obsolescence issues.

The MCX adapter houses the MX12B Mode 5 Level 2B IFF transponder, the KIV-77 or KIV-79 crypto computers, and all required interface hardware for a fraction of the weight, volume and cost of IFF transponders. Includes MIL-STD-1553, ARINC-429 and optional Bluetooth connection to tablet control and display software. Interface protocol can be open source for full integration.

MCX 1.0 Prototype

MCX 2.0 Prototype

ACAS Solutions for DAA and Collision Avoidance

CREWED/UNCREWED SYSTEMS | URBAN AIR MOBILITY AIRCRAFT | CIVIL, COMMERCIAL & DEFENSE

Your Path to BVLOS.

We are helping OEMs to BVLOS certification with ACAS X solutions for Detect and Avoid. We can improve safety, situational awareness using our state of the art MXS and ACAS X computer.

Sagetech supports both DAA in uncrewed vehicles, as well as Collision Avoidance in crewed and optionally crewed aircraft. Whether you are flying for civil beyond-visual-line-of-sight (BVLOS) industrial applications or coming on line with new Urban Air Mobility/Advanced Air Mobility (UAM/AAM) platforms, Sagetech can assist you with proven situational awareness solutions.

Miniature. Tiny SWaP-C. Plug and play integration. Certifiable. Our technology has been proven on platforms for more than a decade.

Download the ACAS Brochure at
sagetech.com/resources/detect-and-avoid

ACAS Xu DAA SYSTEM
FOR FIXED WING UNCREWED AIRCRAFT, >55 POUNDS, >400 AGL

Navigate BVLOS safely through all airspace with this certifiable, ACAS-based, all-in-one detect and avoid system. Featuring low-SWaP and easy integration, this product serves larger fixed wing UAS greater than 55 lbs.

ACAS sXu DAA SYSTEM
FOR SMALL UNCREWED AIRCRAFT, <55 POUNDS, <400 AGL

Navigate BVLOS safely through all airspace with this certifiable, ACAS-based, all-in-one detect and avoid system. Featuring low-SWaP and easy integration, this product serves smaller UAS approx. 55 lbs and below and flying at 400 ft and below.

ACAS Xr DAA SYSTEM
FOR ROTARY WING AIRCRAFT, >55 POUNDS, >400 AGL

Our ACAS Xr Processor is the critical linchpin for supporting both DAA in uncrewed vehicles, as well as Collision Avoidance in crewed and optionally crewed rotary aircraft.

Great Hardware is Powered by Great Software.

Sagetech's sophisticated all-in-one software suite ships with every product to provide integration plus command and control capabilities that ensures the success of your transponder implementation.

INTUITIVE. INTELLIGENT. COMPLIANT.

For more than a decade, UAS companies worldwide have relied on Sagetech's software and firmware expertise for mission-critical flight applications.

INTEGRATE AND TEST

Integrate and configure the transponder for your specific platform. Our software suite enables you to test your autopilot integration, manage your crypto integration, simulate GPS, set up your comm ports, benchtop test your integration, and more.

Plug and play performance integrates transponders onto any platform, including Mode 5 IFF enabled aircraft.

COMMAND AND CONTROL

Use the same software suite as flight software from the ground station once your transponder is on board.

Track up to 400 aircraft simultaneously, control responses to ATC requests, enable or disable modes, monitor thermal status, and understand the overall health of the onboard transponder.

LOG RESULTS

Advanced features including logging, FPGA data, precise time tracking and other features ensure you capture the data you need for your mission.

Integration Services

Let Us Guide You Every Step Of The Way

Our Systems Integration Services team helps OEMs, governments and commercial entities to successfully launch UAV operations in national airspace.

Accomplishing BVLOS readiness is a long road! Wherever you are on the journey, we can help you find the best solutions to meet your requirements.

Download the Integration Services One-pager at https://sagetech.com/resources/product-sheets/ systems-integration-services-datasheet/

PRODUCT TRAINING

Customized product training to meet your unique needs.

AIRCRAFT INTEGRATION
& FLIGHT TESTING

Leverage our team to integrate our solutions for you, saving you valuable time.

GLOBAL SOLUTIONS

We're a team of connectors, actively building partnerships across the spectrum of companies working on situational awareness solutions for tomorrow's crewed & uncrewed and eVTOL aircraft. From industry committees to customers to technology providers, you'll find a Sagetech connection at every point in your situational awareness system journey.

Discover Our International Resellers
https://sagetech.com/international-resellers/

Sagetech 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 a broad range of UAV platforms, 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 a platform. Today, Sagetech is expanding its technology platform to create comprehensive, certifiable systems such as detect and avoid solutions.

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

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