

MXS TRANSPONDER

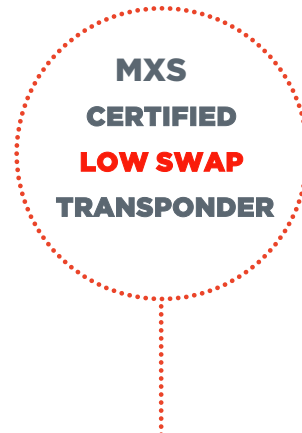
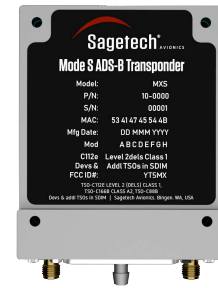
MODE S MICRO TRANSPONDER WITH MANDATE COMPLIANT ADS-B IN AND OUT


Product Number: 10-0000


FAA TSO CERTIFIED


Sagetech's next-gen MXS miniature transponder provides Mode S and 1090 MHz ADS-B In and Out for worldwide compliance of your uncrewed system, all integrated in a single tiny package. The MXS offers RF connections for a top and bottom monopole antenna, to support optional diversity configuration, as well as single antenna configuration. This transponder receives and transmits to both space-based and ground-based ADS-B for the ultimate in visibility and safety.


Based on technology proven in over 1.5 million military mission flight hours, the MXS is ready to serve in your next aircraft program.



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UNPRECEDENTED MICRO SWAP
WITH FULL FEATURE SET
- 

INTEGRATED ADS-B IN/OUT
NO ADDITIONAL
INTEGRATION NEEDED
- 

FLEXIBLE I/O
ETHERNET, RS-232, RS-422
- 

FULL OUTPUT POWER
WITH NO DEVIATIONS

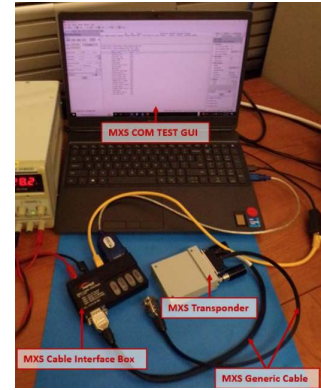
- ▶ CERTIFIED TO TSO-C112E, C166B, C88B
- ▶ FAA MOPS COMPLIANT WITH MODES A, C, AND S
- ▶ ADS-B IN AND OUT
- ▶ INTEGRATED WITH MANY AUTOPILOTS
- ▶ SUPPORTS DIVERSITY OR SINGLE ANTENNA INSTALLATIONS
- ▶ FLEXIBLE I/O: RS-232, RS-422, ETHERNET
- ▶ INTEGRATED ALTITUDE ENCODER
- ▶ FCC ID: YT5MX
- ▶ INTUITIVE COMMAND AND CONTROL SOFTWARE INCLUDED
- ▶ OPTIONAL INTEGRATION KIT AVAILABLE

MXS TRANSPONDER

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Parameter	Specification
General/Communications	
Transmit Power at SMA	55 dBm; 316W
1030 Receive Sensitivity	-74 ± 3 dBm
1090 ADS-B In Sensitivity	-81 dBm
Host Serial Communications	Proprietary protocol
Standard	RS-232; RS-422; Ethernet (Point to Point)
BaroAlt Calibration	Up to 55,000 ft max
Antenna Diversity	Standard (can configure for single antenna)
Export Classification	EAR ECCN 7A994
Supply Voltage	14-28VDC; +/- 4VDC
Power	
Power Consumption	Standby 4W
	Operating 8W
	Typical 10W
Design Objectives (DAL C)	
Transponder Performance Standard (ref: DO-181E)	Level 2dels Class 1
ADS-B Performance Standard (ref: DO-260B)	1090 MHz Class A2
Pressure Altitude Standard	SAE AS8003
Mode S	TSO-C112e
ADS-B	TSO-C166b
Alt. Encoder	TSO-C88b
Environmental/EMI	RTCA DO-160G, MIL-STD-810G, MIL-STD-461F
Physical/Environmental	
Dimensions	86 x 64 x 25 mm (3.4" x 2.5" x 1.0")
Mass	190 g (6.7 oz)
Operating Temperature	-40°C to 70°C
Storage Temperature	-55°C to 85°C
Humidity	Max: 100% non-condensing



EACH TRANSPONDER

offers user-friendly command and control software plus optional test and integration components.



MISSION CONTROL GUI

Our platform provides data visualization of aircraft and can easily customize program parameters for the number of aircraft the system will display.



MULTIPLE AWARD SCHEDULE
NAICS 334511
CONTRACT # 47QSWA23D00A5

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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