

MXS TRANSPONDER

MODE S MICRO TRANSPONDER WITH ADS-B IN AND OUT

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. Featuring top and bottom monopole antennas, 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. FAA TSO certifications are pending and pre-certified integration units ship from stock.



UNPRECEDENTED MICRO SWAP
WITH FULL FEATURE SET



INTEGRATED ADS-B RECEIVER
NO ADDITIONAL
INTEGRATION NEEDED



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



FULL OUTPUT POWER
WITH NO DEVIATIONS

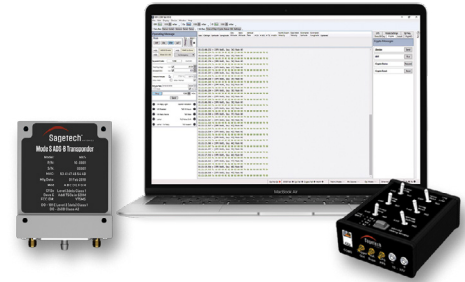
- ▶ COMPLIANT TO TSO-C112E, C166B, C88B*
- ▶ FAA MOPS COMPLIANT WITH MODES A, C, AND S
- ▶ ADS-B IN AND OUT
- ▶ INTEGRATED WITH COMMON AUTOPILOTS
- ▶ ANTENNA DIVERSITY FOR FULL VISIBILITY
- ▶ FLEXIBLE I/O: RS-232, RS-422, ETHERNET
- ▶ INTEGRATED ALTITUDE ENCODER
- ▶ FCC ID: YT5MX
- ▶ INTUITIVE COMMAND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

MXS TRANSPONDER

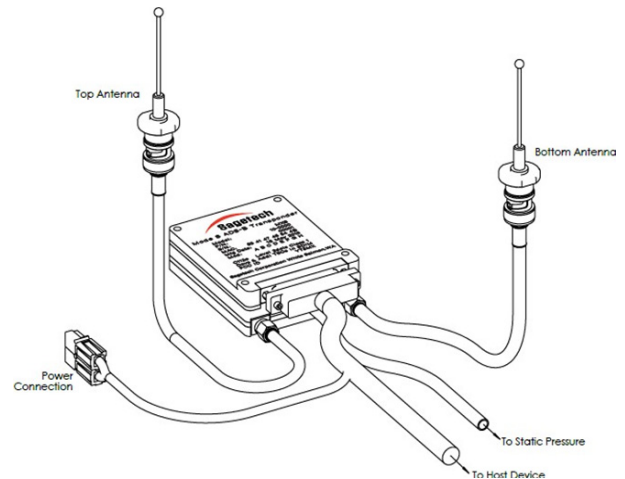
MODE S MICRO TRANSPONDER WITH ADS-B IN AND OUT



Parameter	Specification
General/Communications	
Operating Altitude	Unrestricted
Cruising Speed	Unrestricted
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 100,000 ft
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.



ABOUT SAGETECH

Sagetech is an aerospace technology company, empowering safe flight in crewed and uncrewed aircraft with the world's most reliable UAV transponders. 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 uncrewed platform. Today Sagetech is expanding its technology platform to create comprehensive, certifiable systems, such as detect and avoid solutions. Sagetech works in concert with its extensive ecosystem of OEM customers, technology partners, and resellers to ensure UAVs fly safer with Sagetech on board.

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