



Why Griffon Aerospace Chose Sagetech Avionics



CASE STUDY

DEFENSE SOLUTIONS

Challenge

Griffon Aerospace was selected by the U.S. Army to test Air and Missile Defense Systems. They needed a certified, low SWaP, turn-key Mode 5 IFF solution with custom engineering and quick turnarounds for swift integration.

Solution

Sagetech Avionics Mode 5 IFF Transponder, the MX12B and accessories.

Results

- Seamless customer support
- More integration features and benefits that came at a lower total cost of ownership vs. the competition
- Custom components for easy plug and play
- Full suite of accessories for easy integration

Customer



OVERVIEW

In 2020, Griffon Aerospace was selected by the U.S. Army to test Air and Missile Defense Systems using their Target Drones under a two-year \$49.9 million contract. They needed a low SWaP, low cost, easily deployable Mode 5 IFF Transponder and chose Sagetech as their solution.

Griffon Aerospace completed the work in February of 2022. The company delivered an MQM-171 Broadsword and MQM-170 Outlaw UAS targets for the service branch's targets management office and other customers from the Department of Defense.

Griffon Aerospace is a manufacturer of aerospace products focused primarily on unmanned aircraft systems. Over the past decade, Griffon has delivered over 3600 unmanned air vehicles to the Department of Defense under one of our three prime production contracts. In addition to unmanned aircraft systems manufacturing, Griffon has a large flight operations department supporting simultaneous operations around the world. Our operations teams are based at our headquarters here in Madison and our office on Fort Bliss, Texas where we regularly conduct missions for our DoD and FMS Customers. Griffon is a recognized expertise in the design and fabrication of large advanced composite structures for space applications. Griffon is small business headquartered in Madison, Alabama occupying close to 100,000 square feet of industrial and manufacturing space.

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CHALLENGE

In order for Griffon Aerospace to complete their contract, they needed to find a certified, low SWaP, turn-key Mode 5 IFF solution. Custom engineering and quick turnarounds were needed for a swift integration. Griffon was seeking a low cost, but feature packed solution.

SOLUTION

Sagetech's Mode 5 IFF Transponder, the MX12B was chosen by Griffon. It is the world's first certified small Mode 5 IFF transponder, and packs all the latest required functionality into a micro package.

Tiny compared to traditional Mode 5 transponders, the unit includes integrated ADS-B In and Out, pressure altitude encoder, antenna diversity, and Ethernet. No additional integration of discrete components required, making these an easy plug and play solution.

RESULTS

Griffon Aerospace completed the work in February of 2022. The company delivered an MQM-171 Broadsword and MQM-170 Outlaw UAS targets for the service branch's targets management office and other customers from the Department of Defense.

- MX12B offered more integrated features and benefits at a lower total cost of ownership *vs. the competition*
- Sagetech provided seamless customer support
- Provided custom components for an easy plug and play for Griffon's engineers
- Full suite of accessories to allow easy integration and testing on the bench
- Fully compliant with DOD AIMS Mk XIIB specification

To learn more about our Defense Solutions, please visit:
[sagetech.com/defense-solutions](https://www.sagetech.com/defense-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 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 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.



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