



FIRESTORM

TEMPEST 50

[mUAS] MODULAR UNMANNED
AERIAL SYSTEM



» REAL MODULARITY

- Over-optimized sUAS are grounded on the front, as they don't have the tradespace to morph into what the Warfighter needs.
- Tempest is Firestorm's flagship Group 2 mUAS – a “truck” platform that can be modified as required to accomplish any mission requirement.
- Modular “Lego building block” HW architecture is complemented by an ever-expanding integration ecosystem and Firestorm's open-architecture SparkSDK / APIs and EmberCore middleware.

» FLEXIBLE POWER

- Turbojet, internal combustion engine (ICE) electronic fuel injection (EFI) pusher prop, electric pusher prop, and electric ducted fan (EDF) propulsion systems offer customers the flexibility to tackle a wide array of missions.
- Fossil fuel-derived energy densities can be exploited, while also leveraging the ease of use associated with electric powerplants.

» EFFECTIVE TRANSPORTABILITY

- 10-20 lbs of pure payload weight allows customers to extend capabilities, flying multi-functional missions.
- 55-lb MTOW Tempest breaks down into a man-portable element with a single hard case for transport.
- Tempest can be readied for flight in <10 minutes from case-to-launch.

» COST-EFFECTIVE ENGAGEMENT

- From <\$50k to >\$100k, Tempest allows customers to “design” the system they need to accomplish their mission goals. Tempest hyper-realistic simulation and low costs allow users to go from sim > training > live flight exercises all on the same platform without the need for sporadic certifications / currencies.

» Cruise speeds from 75 to 150 mph

» MTOW of up to 55 lbs

» Standard EO / IR optics (exclusive of provisioned payload weight)

» Ranges from 100 mi to 675 mi

» Payload weight between 10 and 20 lbs

» Edge compute (Nvidia Xavier NX or Orin NX by default)

Firestorm has developed a foundationally modular UAS, designed around MOSA / WOSA concepts while extending modularity to the physical airframe elements. Firestorm's powerful OCTRA autonomy engine controls all mission-critical systems and has the flexibility for deep customization and integration with a wide – and continually growing array – of peripheral systems and sensors. Our ethos of creating a Warfighter-focused platform ecosystem with common subsystems, partnerships, integrations, and end-user customization and development, means that costs can be driven down – truly delivering affordable mass and attritability.

Firestorm leverages advanced manufacturing techniques to lead a completely new approach to UAS design, development, and scalability. Recent events across the globe highlight the glaring advantage of forces that capitalize on rapid iteration of weapons systems. Firestorm aims to bring this overmatch potential to the US and our partner nations. Firestorm intends to democratize the air. Firestorm understands the ever-changing global threat environment and associated mission requirements, deducing that there is only one solution – create a system as extensible and flexible as the enemy and evolve one step ahead of them.



CONTACT US

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