# SKIRON-X

Aurora FLIGHT SCIENCES
A Boeing Company

## Group 2 Tactical Unmanned Aircraft System

### OPTIMIZED FOR SIMPLE AND EFFECTIVE ISR MISSIONS

The Skiron Expeditionary sUAS combines the simple operation of an electric vertical take-off and landing (eVTOL) configuration with the longer endurance of a fixed-wing design. It has a range of up to 47 miles (75 km), and an EO/IR camera payload provides precise ground resolution for airborne intelligence, surveillance, and reconnaissance (ISR). Powered by a battery or fuel cell, SKIRON-X is highly customizable to meet a wide range of applications.

**Hybrid VTOL fixed-wing**
Launch and land without auxiliary equipment. Lift rotors enable vertical launch and landing, while the fixed wing design allows for longer flight time.

**Simplified operations**
Engineered for operation by non-pilot personnel. User-friendly mission planning software facilitates rapid training and allows for mission adjustments even during flight.

**Flexible payload**
Modular nosecone design, enabling swift payload changes and customized integrations. EO/IR, EW, communications relay, lethal systems payload agnostic.

**Long endurance**
Flight endurance exceeds 3.5 hours on battery power. Fuel cell version extends flight time to 7 hours.

**Small footprint**
Designed for efficient deployment. Transportable by standard pick-up truck with a two-person crew. Supports mobile missions using an omni-directional antenna.

**Autonomy**
Implementation and integration of behaviors to support any payload. Advanced autonomy enhances aircraft capabilities without requiring extensive operator training.

**Attritable cost model with streamlined procurement options.** Contact us for more information, existing IDIQ procurement mechanisms available for expedited acquisition.

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| AIRCRAFT SPECIFICATIONS | | |
|---|---|---|
| | SKIRON-X | SKIRON-XLE |
| Length | 2.2 m / 7 ft 3 in | 2.4 m / 7 ft 10 in |
| Wingspan | 5.0 m / 16 ft 6 in | |
| Propulsion system | 40Ah Li-ion rechargeable battery | 800W hydrogen fuel cell with rechargeable LiPo battery and fuel tanks |
| Max Payload | 2.26 kg / 5 lb | 1.45 kg / 3.2 lb |
| Takeoff weight | 23.4 kg / 51.6 lb with Trillium HD55 and battery | 24.5 kg / 54 lb with Trillium HD55, fuel cell, tanks |
| Flight endurance | 3.5 hours | 7 hours |
| Max speed | 26 m/s / 50 knots | |
| Cruise speed | 19 m/s / 36 knots | |
| Max cruise altitude | 12,000 ft density altitude | |
| Typical operating altitude | 500 ft - 4000 ft AGL | |
| Navigation | Anti-jam GPS/GNSS solution available. | |
| Payload attachments | One standard nose mount; optional belly mount | |

| SYSTEM SPECIFICATIONS | | |
|---|---|---|
| Aircraft container size | 26 in x 24 in x 94 in | |
| Aircraft container weight | 82 kg / 180 lbs | |
| Setup time | 10 min | 20 min |
| Integrated payload | Trillium gimbals, HD25 to HD55. Custom integration available. | |

| GROUND CONTROL STATION SPECIFICATIONS | |
|---|---|
| Software | Kutta UGCS software |
| Size + Weight | 35 lbs / 19 in (L) 15 in (W) 8 in (D) |
| Networking | Wired or wireless |
| Range of Operations | Integrated Silvus radio with dual omni attachment. Ethernet/IP/ RF interface to connect to long range antenna |
| Display | Two Toughbooks: 14 inch monitor and 15.6 inch sunlight-readable monitor |
| Handheld (optional) | KTAC capable. Can be worn as a chest mounted device, placed in a pocket, or held with one hand. Compatible with the Android Tactical Assault Kit (ATAK). |


| DATA LINK SPECIFICATIONS | |
|---|---|
| Datalink standard | Silvus SC4200EP<br>*Blue UAS Framework Certified* |
| C2 link range | 6 km with 1W radio and omni ant;<br>75 km with 10W radio and tracking |
| Frequency | S-band; customizable dual S & C bands |
| Link rate | Up to 20 Mbps |
| Output power | Up to 10 W |
| Standard Encryption | AES256; FIPS 140-3 Level 2<br>*LPI/LPD and Anti-Jam Options Available* |

| INTEROPERABILITY | | | | |
|---|---|---|---|---|
| ATAK interoperability | Custom payload integration capable | MISB compatible live video with KLV metadata | Aided target recognition capable | Built on MOSA principles, ensuring transparency and modularity. |

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