Integrator™

Integrator is a multi-mission, long-endurance unmanned aircraft system (UAS) capable of carrying custom payloads for intelligence, surveillance and reconnaissance (ISR).

ADVANTAGES

- Six reconfigurable bays
- Payload capacity of 40 pounds
- Easy integration with external systems
- Line-of-sight communications up to 55 nautical miles (nmi)
- Runway-independent launch and recovery systems
- Communications relay wherever line-of-sight obstructions exist
- Operator control of multiple unmanned vehicles from a single workstation

KEY FEATURES

Performance

- Endurance: Up to 24 hours
- Ceiling: >19,500 ft / 5,944 m
- Max horizontal speed: 90+ knots / 46.3+ m/s
- Cruise speed: 55 knots / 28.3 m/s

Payload integration

- Payload electrical power: 350 W

Dimensions

- Wingspan: 16 ft / 4.9 m
• Length: 8.2 ft / 2.5 m

Weights

• Empty structure: 80 lb / 36.28 kg
• Max payload: 40 lb / 18.0 kg
• Max takeoff: 135 lb / 61.2 kg

Baseline sensor package

• Electro-optic camera
• Mid-wave infrared imager
• Infrared marker
• Laser rangefinder

VARIANT

The RQ-21A Blackjack is an Integrator derivative, developed in partnership with the Department of the Navy to fill the requirement for a small, tactical unmanned aircraft system capable of operating from land and sea.

PROGRAM MILESTONES

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<th>Year</th>
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| 2014 | RQ-21A Blackjack completes Initial Operational Testing and Evaluation (IOT&E)  
Integrator completes a successful 24-hour flight at an increased gross take-off weight with payload on board. |
| 2013 | RQ-21A Blackjack completes first successful maritime flight, and reaches Milestone C under Small Tactical Unmanned Aircraft System (STUAS) contract with Naval Air Systems Command (NAVAIR)  
Integrator completes first successful flight of Block 2 technology upgrades, including temperature extension to 120ºF, mid-wave infrared sensor and ICOMC2 open-architecture ground control integration |
| 2012 | Integrator conducts maiden flight of PicoSAR payload, delivering high-res SAR images from extended ranges in all weather conditions |
| 2011 | RQ-21A Blackjack completes first operational assessment for U.S. Navy’s Small Tactical Unmanned Aircraft System (STUAS) program |
| 2010 | U.S. Naval Air Warfare Center Aircraft Division awards $43.7 million contract for full-scale development of Integrator™ variant, the RQ-21A Blackjack  
Integrator completes successful flight test of electronic fuel-injection on heavy-fuel-engine, proving performance in extreme temperature, high altitude, mountainous terrain |
2009 | RQ-21A Blackjack completes successful flight demos for U.S. government competition for Small Tactical Unmanned Aircraft System (STUAS) / Tier II contract

2007 | Insitu introduces Integrator™ UAS in response to expanding military needs

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