

ACE™ (Autonomous Control Engine) delivers precision launch and landing from confined spaces, moving vehicles, or vessels in motion with seamless vision-based navigation. ACE provides automated, centimeter-level precision landings in dynamic environments, without relying on GPS, for any UAS.

## SPECIFICATIONS -

AUTONOMOUS Landing Accuracy	< 10 cm on stationary or moving platforms
VEHICLE/VESSEL Speed	Depends on host UAS maximum speed
SEA STATE Tolerance	3 (for autonomous landing) Accounts for 6 DoF vessel motion
SECURITY	Jam resistent Encrypted file system
OPERATING SYSTEM	Linux
INTERFACE PROTOCOL	MAVLink (standard) and custom interfaces available

## **INTEGRATIONS**

ACE<sup>™</sup> precision navigation system is a software-hardware solution for existing UAS. ACE<sup>™</sup> has been integrated into UAS of various sizes and configurations.





## **KEY FEATURES**

- » Suitable for any VTOL UAS that needs to operate from moving vehicles and vessels on land or at sea
- » Autonomous high-precision takeoff, landing, and position-hold relative to stationary or moving platforms
- » GPS-optional operation
- » Minimal operator training
- » Minimal installed hardware
- >>> Standard open interfaces for compatibility with third-party and legacy systems
- » Enables mobile tethered UAS for long duration missions



AeroVironment - ph: 703.418.2828 - www.avinc.com // © 2024 AeroVironment, its product names and the AV logo are protected trademarks of AeroVironment Inc. All other company, product names, logos, and brands are property of their respective owners and are for identification purposes only. Use of these names, logos, and brands does not imply endorsement. Screen images may be simulated. All specifications are subject to change. This data sheet consists of AeroVironment, Inc. general capabilities information that does not contain controlled technical data as defined within the International Traffic in Arms Regulations (ITAR) Part 120.10 or Export Administration Regulations (EAR) Part 734.7-11.

