

Aircraft Automation Solutions

With S-PLANE's Aircraft Automation Solutions, airframes designed for manned or for unmanned operation are fully automated to become Unmanned or Optionally Piloted Vehicles (UAVs or OPVs). This includes mini-UAVs, Tactical UAVs and MALE UAVs, and extends to the conversion of general aviation manned aircraft into UAVs and OPVs. The primary building blocks of these solutions are S-PLANE's state of the art, reliable and redundant nxSERIES, xSERIES and xKIT certification-ready products, combined with system engineering, integration, flight testing and certification support.

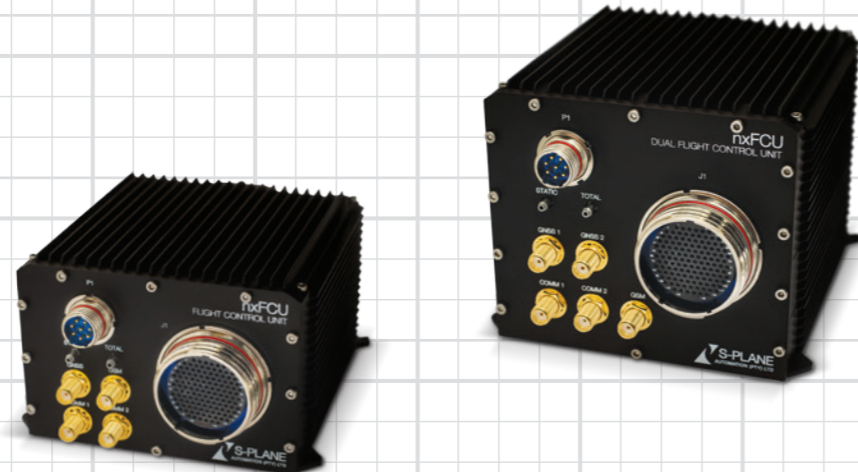


Aircraft Automation Solutions

nxSERIES

xSERIES

xKIT



Product Applications:

- nxSERIES: mini and tactical UAVs
- xSERIES: tactical and MALE UAVs
- xKIT: complete MALE UAV and OPV Automation
- Rotary- and fixed-wing aircraft

Scalability:

- Shared software architectures between products
- Shared hardware architectures between products
- Tightly integrated and card-based options
- Scalable redundancy up to x3
- Scalable enclosures

Functionality:

- Full envelope flight automation
- Mission management
- Protected fly-by-wire remote piloting
- Built-in payload, LOSCom and SatCom management and storage
- Automation and remote control of general aircraft functions

Characteristics:

- Modern and Versatile
- Proven and Safe
- Seamless redundancy
- RTCA Standards-based
- Certification-ready
- Highly customisable

Interoperability:

- STANAG 4586
- Shared S-PLANE Ground Control Solutions
- Shared S-PLANE Communication Solutions
- Shared S-PLANE Simulation Solutions

End-to-end Support:

- System Engineering
- Customisation
- Integration
- Flight Testing
- Certification
- Maintenance and Repair

xKIT

S-PLANE's xKIT is a comprehensive solution that offers a means to rapidly convert a manned aircraft into an Optionally Piloted Vehicle (OPV) or Unmanned Aerial Vehicle (UAV). Built on proven and rugged xSERIES technology and S-PLANE's Communication and Ground Control Solutions, the flexible xKIT can be readily applied to almost any fixed- and rotary-wing aircraft. Seamless integration with third party payloads brings high-end, versatile autonomous systems of the future to today.



xSERIES

S-PLANE's xSERIES of automation subsystems represents the state-of-the-art in avionics and automation solutions for OPVs and UAVs. The xSERIES was specifically designed from the ground up to be modular, scalable and rugged to robustly accommodate the wide variety of form, fit and function requirements faced by aircraft subsystems. The result is a series of subsystems able to precisely meet the functional, physical and safety requirements of almost any UAV, while providing the latest in technology, standards, reliability and maintainability.



nxSERIES

S-PLANE's nxSERIES is the Nano extension of this product family catering for small-form-factor, SWaP sensitive systems. It comes with an optional internal Power Distribution Unit (PDU) for further SWaP optimisation. Reliability, functionality, flexibility and certifiability are all key design elements carried across to the nxSERIES architecture. The result is a set of subsystems able to accommodate the strict physical and electrical requirements of SWaP sensitive systems, while continuing to provide the latest in technology and functionality, responsibly and reliably.



Contact Details

9B Cyclonite Road, The Interchange, Somerset West, South Africa, 7130
 Phone: +27 21 851 9282, Fax: +27 86 298 4587
 Email: info@s-plane.com, Web: www.s-plane.com