

SiClone

Modernise Obsolete Avionics Test Systems Without Disrupting Operations



SiClone is a modular avionics test platform designed to replicate legacy systems, enabling operators to replace obsolete equipment whilst maintaining full compatibility with existing workflows, test procedures and certification requirements.

SiClone

Seamless Replacement for Legacy Test Systems

Designed for both aerospace and defence applications, SiClone supports a wide range of avionic LRUs and integrates seamlessly into existing maintenance environments. By replicating the functionality and behaviour of legacy systems, it ensures continuity in operations whilst introducing modern, reliable hardware.

The platform maintains compatibility with existing test programs and procedures, allowing teams to continue working without disruption.

Product Highlights:

- Seamlessly replicate legacy avionics test systems
- Reduce obsolescence risk and extend system lifespan
- Lower lifecycle and maintenance costs
- Preserve existing test programs and validated procedures
- Flexible deployment across maintenance environments



Key Benefits:

- Reduce obsolescence risk and dependency on ageing hardware
- Enable gradual transition from manual to automated testing
- Long-term sustainability with COTS hardware
- Continuity of validated test procedures and certifications
- Lower lifecycle and operational costs
- Improve system reliability and uptime
- Simplify maintenance with modern, modular components
- Eliminate costly redevelopment and preserve validated workflows and processes



→ Preserve and Extend Legacy Capabilities

SiClone replicates the behaviour of existing avionics test systems, ensuring full continuity in testing operations. It reuses validated test programs without modification to avoid redesign of certified test environments. Test redevelopment time and engineering effort are significantly reduced while modern hardware replacements improve system reliability.

→ Modular and Future-Ready Architecture

Built on a modular commercial off-the-shelf (COTS) foundation, SiClone ensures long-term adaptability with easy upgrade paths to expand system capabilities. Simplify maintenance and spare parts management and reduce reliance on hard-to-source components.

→ Flexible Testing Capabilities

SiClone supports a wide range of operational needs across production and maintenance environments and is compatible with diverse avionics LRUs and various avionics subsystems. It is available in a 19" rack or a portable configuration, suitable for production floors, workshops, hangars, and field use. SiClone offers built-in signal conditioning for accurate test execution and is compatible with legacy electrical interfaces and complex testing requirements.

→ MRO Integration & Digital Continuity

SiClone bridges legacy systems with modern maintenance strategies to integrate into existing MRO workflows. It simplifies test result tracking and traceability and supports digital maintenance and data continuity.

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Technical Highlights:

- Modular rack-based architecture
- Commercial off-the-shelf components
- Integrated signal conditioning
- Legacy interface compatibility
- Scalable and configurable system design

→ Modernise your legacy avionics test capabilities without impacting operations.

Contact us to learn how SiClone can seamlessly replace obsolete systems whilst preserving your existing test programs and workflows.

