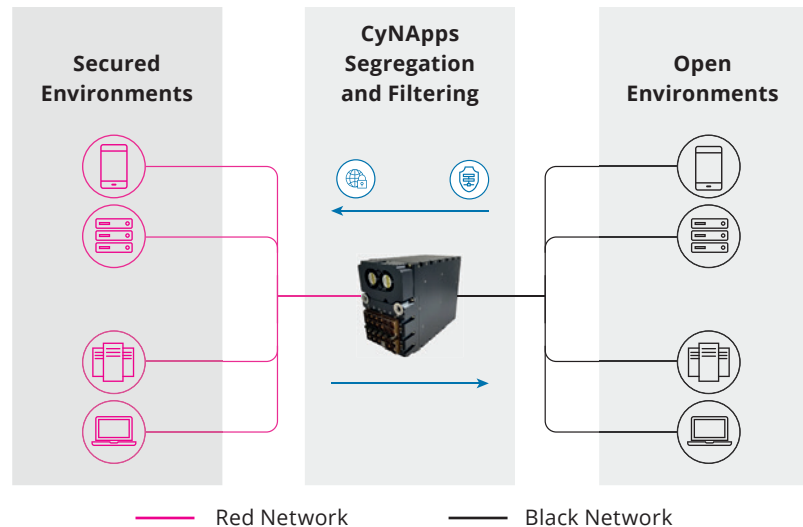


CyNApps

Secure Multi-Level Calculator

CyNApps, for Cyber and Applications, is an embedded secure multi-level gateway that enables bi-directional communication between networks with heterogeneous levels of confidentiality.

Complies with EAL 3+ Common Criteria



Context

Air defence – combat, tactical and strategic missions, training, military transport.

Challenge

Collaborative combat and authorized exchange of authorised data between systems systems of different classification levels.

Main Functionalities

- Ensure the integrity of the data exchanged and the security of all on-board connectivity.
- Ensure the accessibility and secure sharing of authorised critical information against external intrusion.

MAIN FEATURES

- System developed, produced and integrated in France
- EAL 3+ Common Criteria compliant according to ANSSI
- System with BIT (Built In Test) self-test
- Ruggedised embedded platform aeronautical¹
- Configurable to customer requirements
- Specific applications and functions (PikeOS RTOS & Hypervisor by SYSGO, Windows™, Linux, switch, Ethernet, tactical bus and video services)

¹ CyNApps naval and land versions, ask for the dedicated datasheets

PikeOS – Security Core

- Separation of partitions/VM
- Controlled information flow
- Access control to resources
- Availability of resources
- White list security policy
- Mixed criticality & MILS compliance

PikeOS – Security Functionality

- Secure high-performance IO devices
- Secure boot and update
- Support ARM Trustzone
- Cryptography support
- Security hardware support
- Secure communication services
- Intrusion Detection System

PikeOS – Security Certification

- High-assurance for claimed Security functionality
- Common Criteria, Airbus SAR, ISO 27000
- DO 356, IEC 62443, J3061
- ISO 21434
- Certification artefacts for PikeOS
- PikeOS Security Manual
 - Usage for secure applications

Founded in 1991, SYSGO became a trusted advisor for Embedded Operating Systems and is the European leader in hypervisor-based OS technology offering worldwide product life cycle support. We are well positioned to meet customer needs in all industries and offer tailor-made solutions with highest expectations in Safety & Security. More information at www.sysgo.com/avionics