

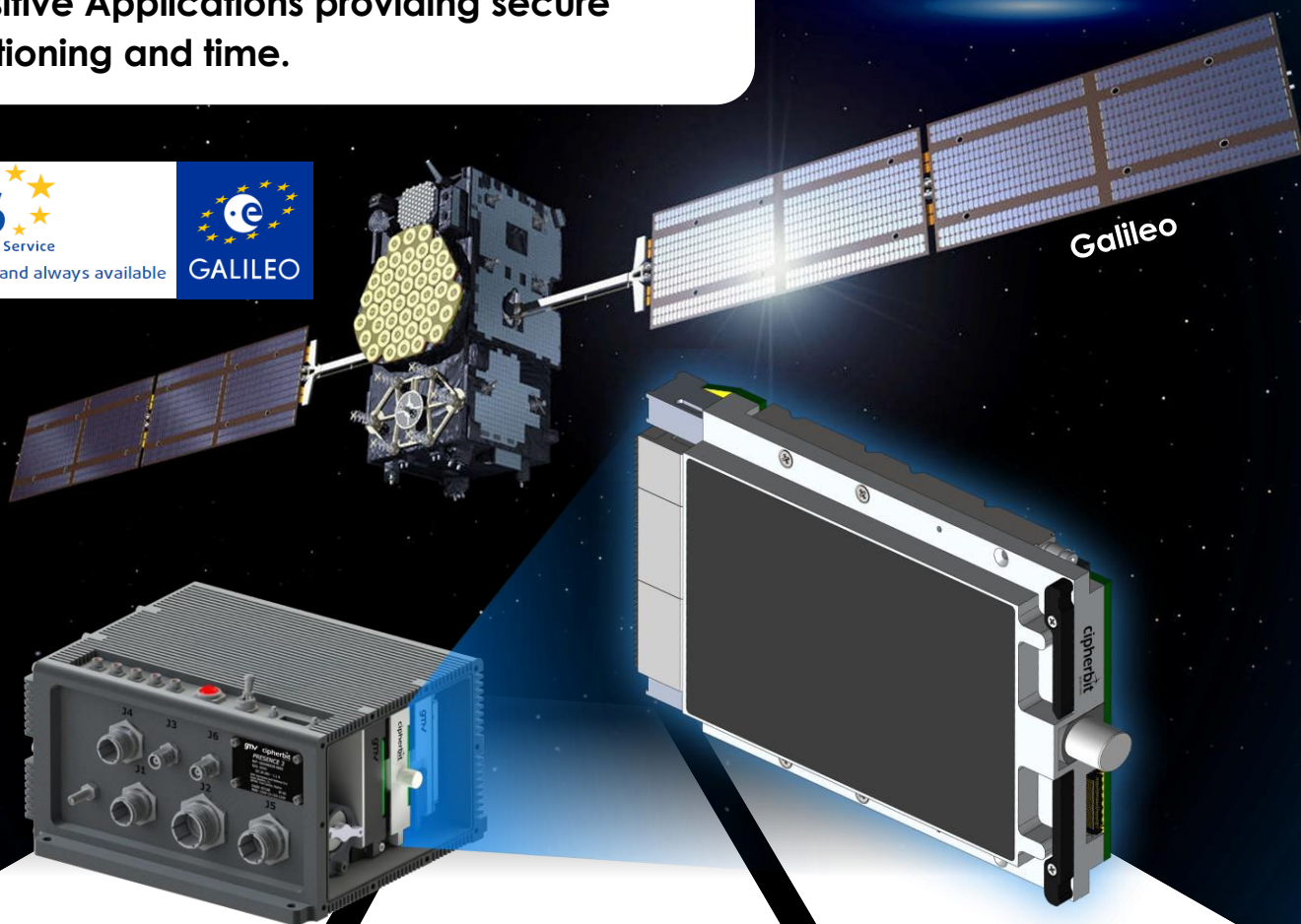
Secure Communications

cipherbit
grupo oesía

PRESENCE3

PRS SECURITY MODULE

Enabling Secure Access to encrypted Galileo Public Regulated Service (PRS) for Governmental authorized users and Sensitive Applications providing secure positioning and time.



The Security Module decrypts classified information from the PRS service and manages cryptographic keys. The PRS service offers enhanced resistance to jamming and spoofing.

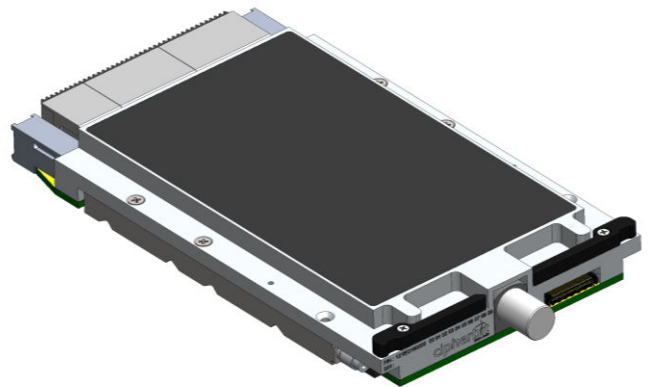
The Security Module is VPX compliant and easily integrates into VITA 46 slot enclosures for rugged embedded defense applications

Building on the field-proven PRESENCE2 design already deployed in Spanish Navy vessels, PRESENCE3 delivers enhanced capabilities in a significantly miniaturized, standardized form factor.

Protect PRS assets (crypto algorithms, keys) with secure and dedicated HW

Functionality:

- National certification under Spanish NSA CCN-STIC-130 standard (Security Level HIGH)
- Common Criteria Certification EAL4+ (AVA_VAN.5 y FLR)
- MEMeC Level 3
- Compliant with VITA 46 VPX standard for rugged, high-performance embedded systems in defense applications
- Secure boot with CIK (Crypto Ignition Key)
- Security Module without CIK will be "unclassified"
- Audit: crypto user accessible info about events recorded by the Security Module
- Anti-tamper protection and zeroization
- EU Tempest IASG-03-07 compliance with Level-A
- UE key loading – compatible to BBKME (red keys) and national loader (black keys)
- Security Message processing:
 - Rekey OTAR
 - Orders management
- Implements Spanish Secondary Channel orders
- Includes GMV receiver Software allowing all-sats in view navigation in PRS-only mode in bands E1 and E6



Interfaces:

- PWR (main and back-up)
- Zeroize
- Alarm
- CIK
- PRS Secondary Channel
- Status interface signals for LEDs on the front panel of rugged enclosure indicating:
 - Attack
 - Operation Mode
 - Status (zeroize, loading keys, active denegation order, crypto user authentication)
- Key load port DS-101



INTEGRATIONS

Designed for seamless integration into land vehicles, naval platforms, and fixed installations such as command centers and headquarters, ensuring secure PRS access across all operational domains.



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