

PRESENCE2

PRS SECURITY MODULE

The Galileo Public Regulated Service (PRS) is an encrypted navigation service for governmental authorized users and sensitive applications that require high continuity.



Security Module
decrypts the
classified information
from PRS service and
key management

PRS makes it more
costly and difficult to
attack its signals.
Specifically, the
service is more
resistant to "jamming"
and "spoofing"

In case of malicious
interference, PRS
increases the
likelihood of the
continuous
availability of the
Signal-in-Space
(robustness)

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

Functionality

- Security level: HIGH
 - Protection measurement 100% designed and implemented by CIPHERBIT
- National Approval in progress and UE approval (Second Party Evaluation) scheduled for 2025
- Secure boot with CIK (Crypto Ignition Key)
- Security Module without CIK will be "unclassified"
 - Advantages for transport and storage
- Support 2 user roles(operator and crypto – with doble authentication factor)
- Auditory, Zeroization & Tamper detection
- EU Tempest IASG-7
- UE key loading – compatible to BBKME (red keys) and national loader (black keys)
- Security Message processing:
 - Rekey OTAR
 - Orders management
- Environmental qualification (low and high temperature, vibration, rain, sand, salt fog and EMI/EMC)
- Includes GMV receiver Software allowing all-sats in view navigation in PRS-only mode in bands E1 and E6



Interfaces :

- PWR
- Zeroize
- Alarm
- CIK
- LEDs
 - Low battery
 - Attack
 - Mode (operative, without keys)
 - Status (zeroize, loading keys, active denegation order, crypto user authentication)
- Key load port



INTEGRATIONS

It can be easily integrated into different customer configurations, with military requirements of land vehicules or navy platforms



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