



 **Tactical Communications** > Cypher

PRS Security Module

PRESENCE2

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

Main Functional Capabilities:

PRS will ensure better continuity of service to authorised users in situations when other navigation services may be degraded (resilience)

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

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

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

PRS can provide support to a range of European public safety and emergency services

Security Module manages the access control to the PRS service and does the user authentication

Protect PRS assets (crypto algorithms, keys) with secure and dedicated HW with the following functionality:

- Security level: HIGH
 - Protection measurement 100% designed and implemented by TECNOBIT
- National Approval in progress and UE approval (Second Party Evaluation) scheduled for 2023
- 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 nacional loader (black keys)
- Security Message processing:
 - Rekey OTAR
 - Orders management
- Environmental qualification (low and high temperature, vibration, rain, sand, salty fog and EMI/EMC)

Physical Characteristics:

- Size: 167mm x 225mm x 56mm
- Weight: 2.8 Kg



Interfaces:

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

Integraciones:



It can be easily integrated into different customer configurations, with military requirements in land vehicles or naval platforms.



Headquarters:

Calle Marie Curie 19, 4ª planta
28521 Rivas-Yaciamadrid (Madrid), Spain
Telephone: +34 916 617 161 Fax: +34 916 619 840

Factory:

Calle Fudre, 18
13300 Valdepeñas (Ciudad Real), Spain
Telephone: +34 926 347 830 Fax: +34 926 312 896

grupooesia.com

tecnobit.es

producto@oesia.com