

# PRAETORIAN

## General Description

### **Praetorian, Defensive Aids Suite**

Praetorian is an integral part of the Eurofighter Typhoon's fighting equipment providing comprehensive protection and an important contribution to the platform's situational awareness capability. Created specifically for use aboard the four-nation Eurofighter Typhoon multirole combat aircraft, the Praetorian Electronic Warfare (EW) suite is designed to provide its host platform with protection against air-to-air and surface-to-air threats. 360° cover is provided, with the system carrying out threat detection and evaluation before automatically activating a countermeasure response.

SELEX Galileo leads the EuroDASS consortium which is responsible for the design, development and supply of Praetorian as the Typhoon's combat effective defensive aids suite. The consortium also includes Elettronica of Italy, INDRA of Spain and EADS of Germany.

### **A Proven Product**

Praetorian is embarked internally onto the Typhoon aircraft, providing spherical threat warning and protection against air to air and surface to air threats without the need to carry flight profile limiting pods. Enhanced survivability is achieved through a comprehensive set of self defence sensors and countermeasures which detect and evaluate potential threats at maximum range and automatically deploy the most effective countermeasures.

The Electronic Support Measures (ESM) and Laser Warner together with the active Missile Approach Warner (MAW) work together with the Eurofighter Typhoon's on board sensing systems to give timely warning and identification of threats to the user.

The Electronic Countermeasures System (ECM) works automatically by activating the most suitable on or off board counter to the threat while the information is displayed graphically on the cockpit multi function displays. This allows the pilot a further option of manoeuvre or manual override.

Onboard countermeasures incorporate Digital Radio Frequency Memory (DRFM) technology and cover a comprehensive range coherent and non coherent jamming techniques

Praetorian features innovative active off board countermeasures, a system which includes two Towed Decoys and provides a unique ability for decoys to be deployed and operate over any part of the platform's flight envelope, including manoeuvres under full power and high 'g'. Passive countermeasures include a range of 'Chaff' and 'Flare' payloads.

Praetorian's system Mission Dependent Data is fully user programmable to ensure complete national control of the Electronic Warfare (EW) software library content

The system is designed to support future growth modification thus ensuring protection for Eurofighter through the 21st Century.

**Product attributes:-**

- Advanced Electronic Surveillance Measures (ESM) receiver for high pulse density environments
- Optimum selection of on and off-board RF jamming and expendables
- Compact high sensitivity laser warning receiver
- Fully integrated self protection system
- Advanced integration techniques
- Missile warning using pulse doppler technology

**Product Features:-**

- Electronic Support Measures
- Spherical sensor coverage  
Effective threat identification in high-density environment for automatic initiation of countermeasures  
Target identification with High Accuracy Direction Finding
- Electronic Countermeasures
- Fully integrated ESM/ECM  
Comprehensive range of DRFM based coherent and non coherent ECM techniques including anti monopulse.
- On board and off board countermeasures
- Phased Array Active Oboard Countermeasures
- Missile Approach Warner
- Long detection range both forward and rear for effective deployment of countermeasures  
Low false alarm rate using proven clutter rejection techniques
- Laser Warning Receiver
- Broad spectral response  
Low profile contact passive sensor heads  
Fibre optic coupling  
High immunity to electro magnetic interface  
Reprogrammable central processor  
Exceptionally low false alarm rate

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