



**SAAB**



AREXIS ELECTRONIC WARFARE SOLUTION

**Armed with confidence**



# Armed with confidence



In a constantly changing, increasingly complex and demanding mission environment, Arexis – Saab's family of Electronic Warfare systems for aircraft – will arm your fighter pilots with superior situational awareness, unrivalled survivability and the advantage of having the freedom act.

## Up to the task

Arexis is based on the most modern technology available and developed for both offensive and defensive operations. By combining the very latest in self-protection and Electronic Attack, Arexis makes your fighter more than ready to counter any threats in the multi-faceted signal environment of today and tomorrow. Letting the pilot focus on the task at hand, ensuring that your missions will be successful too.

## The deceptive advantage

Arexis advanced escort jamming pod actively disturbs, deceives and misleads adversaries and enables offensive operations within the coverage of hostile A2/AD-systems. It can also jam modern anti-stealth air defence systems and rapidly enable the full protection and offensive capabilities to a full fleet. With highly sophisticated Artificial Intelligence (AI), a minimum of attention is required from the busy aircrew.



The Arexis EA Jammer Pod can be fitted on any fighter aircraft. The architecture is proven on Gripen, Tornado and Saab's AEW&C platforms.

## Your invisible wingman

Whatever happens Arexis will always be watching and ready to protect the pilot's back. Essential situational awareness for self-protection is provided by its Radar Warning Receiver (RWR) and tactical support via its Intelligence, Surveillance and Reconnaissance (ISR) capabilities.

With the aid of Electronic Countermeasures (ECM) the situational awareness provided enhances the survivability and ability to make a safe return to base.

## Proven state-of-the-art technology

Arexis is based on wideband RF technology specifically developed for robustness in today's demanding signal environment. The core technologies leverages from technology already in place for the MFS-EW self-protection suite in the new Gripen E fighter.

This EW technology basis includes Gallium Nitride (GaN) solid state Active Electronically Scanned Array (AESA) transmitters, ultra-wideband digital receivers and Digital Radio Frequency Memory devices (DRFMs).

## Fit for fight

Featuring smart software and high-tech modular components with small footprint in a proven and tested architecture that supports multi-function integration with other fighter aircraft sensors and countermeasures, Arexis makes for a perfect fit on any fighter.

## Leave nothing to chance

Investments in advanced technologies always involve risks. However, Arexis is a smart and less risky way to improve fighter self-defence capabilities. A best-of-breed EW solution that is tested, proven and fully financed. If you want your fighters to be ready for whatever comes their way, Arexis makes sure you leave nothing to chance.

## Committed for the long term

At Saab we believe in long-term commitments and high availability. Therefore, our offer includes a range of well-thought-out support services that can be tailored to precise customer needs and requirements.

With over sixty years' experience in Electronic Warfare and from implementing complex EW projects worldwide, we know the true needs of the end users.

## Arexis core capabilities

- **Threat detection**  
Digital Radar Warning Receiver (RWR) with spherical coverage gives high POI and robust positioning, even during evasive manoeuvring.
- **Electronic attack**  
Suppression of enemy air defence (SEAD) through Electronic Attack using high powered AESA jammers with the latest DRFM technology.
- **Prevention of detection**  
Wideband DRFM with directed jamming of enemy fighters and modern AEW radars.
- **Multi threat handling**  
Precise direction finding combined with steerable AESA ECM antennas enables effective jamming of numerous simultaneous threats.

# Arexis key features

**360° platform protection** – situational awareness combined with jamming and expendables

**Electronic Attack** – support and escort jamming against modern anti-stealth radars

**Handles complex signal environment** – state-of-the-art ultra-wideband digital receivers and DRFMs

**GaN-based AESA** – very high output power combined with good efficiency and redundancy

**Proven** – architecture proven in Gripen, Tornado and Saab's airborne early warning & control platforms

**Adaptable** – can be fitted to all fighters and is easy to integrate due to a highly modular design

**EW independence** – fully programmable system and support tools creates sovereign capability

