



SAAB



AREXIS ELECTRONIC WARFARE FAMILY

**Enabling
mission success**

Enabling mission success

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.

The Arexis Electronic Warfare family include systems for both offensive and defensive operations. It is based on the most modern technology available and developed to maximise mission effectiveness in the multi-faceted signal environments of today and tomorrow.

Developed by Saab, proven in Gripen, the Arexis suite is ready to provide both offensive and defensive capabilities to any fighter aircraft.

Offensive operations

The Arexis jammer pod for advanced Electronic Attack (EA) purposes enables offensive operations within the coverage of hostile A2/AD-systems. The jammer is adapted to the lower frequency ranges that are required to jam modern anti-stealth air defence systems. The EA application provides high output power and is carried in a pod to make it a role-specific solution.

Defensive operations

Arexis provides the aircrew with essential situational awareness for self-protection due to its Radar Warning Receiver (RWR), and tactical support via its Intelligence, Surveillance and Reconnaissance (ISR) capabilities. Together with the aid of the appropriate Electronic Countermeasures (ECM) the situational awareness provided enhances the survivability of the platform.

Proven technology

Arexis is based on wideband RF technology specifically developed for robustness in today's very complex 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).

Designed for integration

Arexis products are adapted to fighter aircraft installation and environmental requirements. The architecture supports multi-function integration with other fighter aircraft sensors and countermeasures.

We know your challenges

Saab is not only one of the world's premier supplier of fighter aircraft, we also develop a wide range of sensors for defence applications. With over sixty years' experience in Electronic Warfare (EW) and from implementing complex EW projects worldwide, we know the true needs of the end users.

Committed all the way

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.

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



MFS-EW in Gripen E is a system within the Arexis family.

- 1 ECM AESA Antennas
- 2 Radar Warning & ECM AESA Antennas
- 3 Digital Receiver & Exciter
- 4 Signal Processing Unit
- 5 Radar Warning Antenna

Arexis key features

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

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

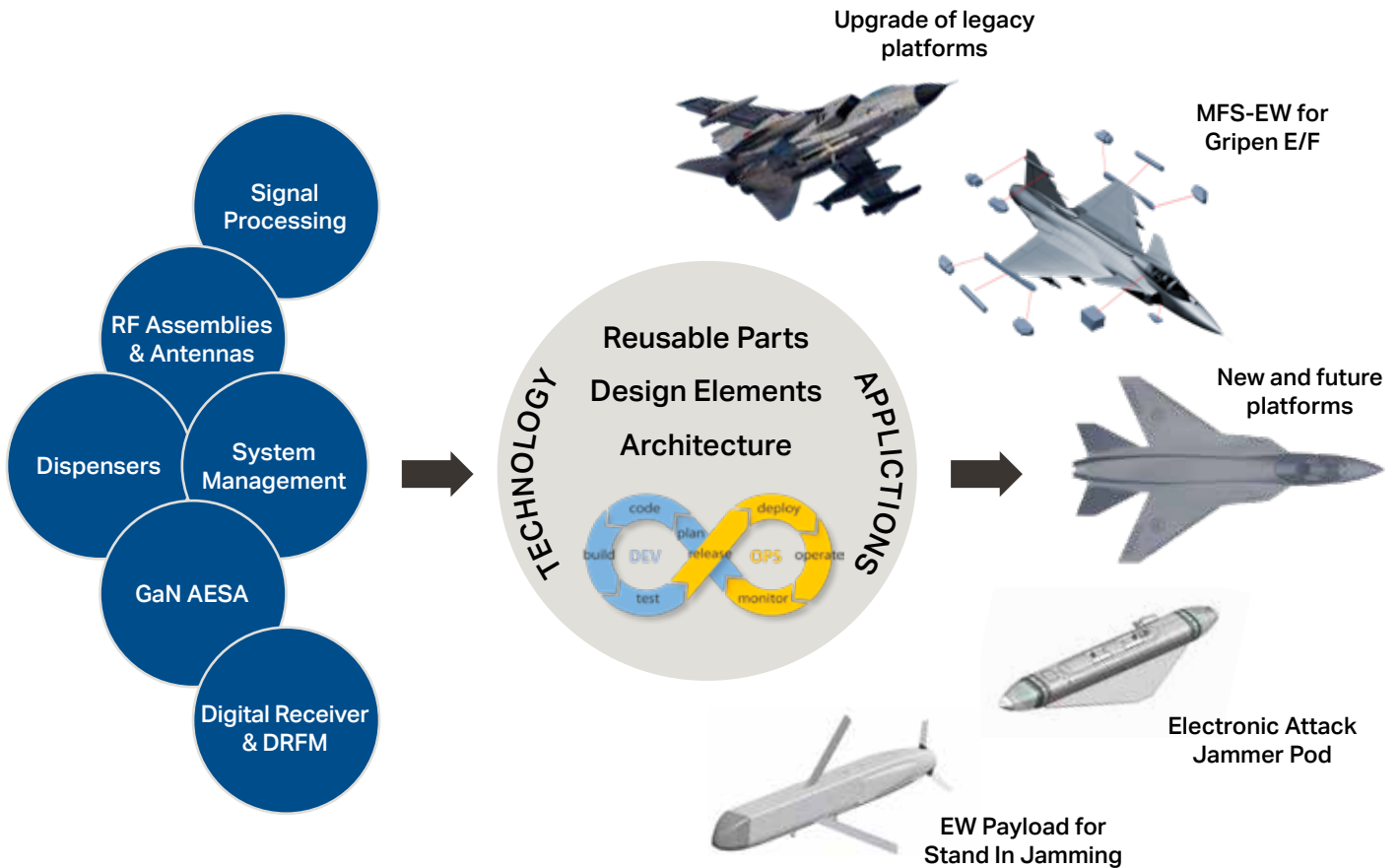
EW independence – fully programmable system and support tools creates sovereign capability

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



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