

ROHDE & SCHWARZ

Make ideas real



# THE SOVERON AIRBORNE RADIO FAMILY AND THE GRIPEN E

Independent, privately owned manufacturer

## AT A GLANCE

- ▶ **Customer:** Saab AB
- ▶ **Task:** As part of the development and production of 36 aircraft for the Brazilian Air Force, Saab chose Rohde & Schwarz as the radiocommunications supplier for Gripen E/F fighter aircraft
- ▶ **Challenge:** The need arose for an independent, privately owned manufacturer whose business processes focused on sustainability – from product planning to employee loyalty and trusting partnerships with government and industry
- ▶ **Solution:** SOVERON AR radios with state-of-the-art communications algorithms to ensure that Gripen aircraft can operate in international airspace and under network centric operations conditions
- ▶ **Key benefit:** The SOVERON transceivers are developed by an independent, privately owned company that stands for development, production, commissioning and lifetime support under one brand



### The customer/platform

Made for future-oriented air forces, the Gripen E incorporates cutting-edge technologies and the latest systems, sensors, weapons and pods to ensure combat advantage, delivering air superiority in highly contested environments. The Gripen's suite of sensors delivers cross-domain data gathering and an unprecedented level of networked sensor fusion. Information is quickly analyzed and shared in real time, enabling critical decisions to be rapidly implemented and ensuring tactical superiority. Saab and the Brazilian government signed a contract to develop and produce 36 new Gripen fighters between 2019 and 2024.

### Customer situation and requirements

The Brazilian Gripen program began in 2013 when Saab successfully bid for the F-X2 program to replace the jet fighter fleet operated by the Brazilian Air Force (FAB). In October 2014, a contract was signed with the Brazilian government for the development and production of 36 aircraft. In 2024, the last jet fighter will be delivered to the FAB. As part of the development and production, Saab

chose Rohde & Schwarz to supply the Gripen fighter aircraft with SOVERON AR airborne radios for several export countries.

### Rohde & Schwarz solution

SOVERON AR airborne radios use various state-of-the-art communications algorithms that were standardized throughout NATO. They also use proprietary EPM (ECCM) such as R&S®SECOS with embedded software cryptology for interoperability with legacy radios and the next generation of SOVERONWAVE AJ-NB (anti-jam narrowband) for high data rate secure communications. Software downloads allow transceivers to implement important functions during a mission. This ensures that Gripen can be used in international airspace and under network centric operations conditions.

For more information, visit  
[www.rohde-schwarz.com](http://www.rohde-schwarz.com)



## Results and achievements

Rohde & Schwarz radios are integrated in Gripen aircraft in several export countries and the new SOVERON AR was selected by Saab and the FAB to be integrated in the country's Gripen E/F fighter aircraft.

Rohde & Schwarz satisfies the most demanding requirements of a multitude of airborne platforms. SOVERON radios are in operation around the world and are highly reliable even under extreme environmental conditions. More than 8000 radios from the airborne transceiver family are in use worldwide on over 70 different airborne platforms. Other versions of this radio support the NATO frequency algorithms HAVE QUICK II and SATURN for interoperability in allied operations. Software downloads allow the transceivers to implement important functions during a mission.

## Product

Information superiority is vital to mission effectiveness and survivability. Key mission success factors are reliability, security, flexibility and system capability in deployed communications solutions. SOVERON provides secure and reliable mission communications networks for all branches and command and control levels of the armed forces. It also stands for sovereignty, providing the customer with the possibility of customized cryptology and waveforms for national secure communications. The SOVERON AR airborne radio is a part of the SOVERON radio family. And, of course, the radio has been qualified in line with MIL-STD-704F, MIL-STD-810F and MIL-STD-461F to minimize additional platform-specific qualification.



“Rohde & Schwarz was selected because it is an independent, privately owned manufacturer with highly advanced airborne radios. The company has proven itself as a trusted and innovative

business partner for the aviation industry and end customers.”

Igor Luvizeto, Head of Secure Communications at Rohde & Schwarz Brazil



[www.rohde-schwarz.com](http://www.rohde-schwarz.com) | [www.rohde-schwarz.com/support](http://www.rohde-schwarz.com/support) | [www.training.rohde-schwarz.com](http://www.training.rohde-schwarz.com)

R&S® is a registered trademark of Rohde & Schwarz GmbH & Co. KG | Trade names are trademarks of the owners  
The SOVERON Airborne Radio Family and the Gripen E  
PD 3683.7254.32 | Version 01.00 | July 2024 (ch)  
Data without tolerance limits is not binding | Subject to change  
© 2024 Rohde & Schwarz GmbH & Co. KG | 81671 Munich, Germany