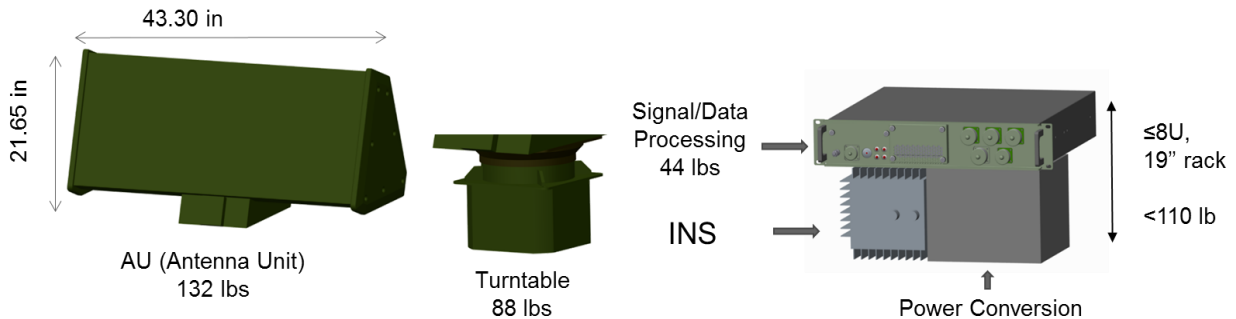


Experimentation Description

Saab is planning an 18 month project to develop the GIRAFFE 1X baseline to meet the performance requirements for TRL-8 for the U.S. Army. Major system elements of the GIRAFFE 1X are provided in following Figure.



GIRAFFE 1X Major System Elements.

The Antenna Unit (AU) is composed of a single Antenna Plate and two Transmit/Receive Modules (TRM). Each TRM includes a single Transmit Receive Board (TRB), performing Analog/Digital Conversion, control and communication, and power conversion; and twelve GaN power amplifier based RF Modules (RFM). GIRAFFE 1X is an AESA based, X-Band SHORAD radar that provides forces with early warning and the ability to detect and classify more than 100 different targets – simultaneously, even in high-clutter environments.

Saab will adapt the current GIRAFFE 1X system to the specific requirements from Task 1. This may include tuning of the classification algorithms, system packaging for the mission, generating interfaces to defeat systems. A complete hardware system will be built, integrated and testing in the lab and live range prior to subsequent operational demonstrations. Saab then plans to conduct a demonstration at our Radar Test Facility before proceeding to the Yuma Proving Grounds to conduct a demo at their facility.

Saab USA is familiar with participation in these types of events, is a thought leader in C-UAS in the international community, and has a very strong history of providing radar systems to the U.S. Government. Saab's participation in the NATO Industry Advisory Group where we contributed to the group's report on the ENGAGEMENT OF LOW, SLOW AND SMALL AERIAL TARGETS BY GBAD, 2013, also contributes to its understanding and expertise in dealing with the UAS threat. These development efforts on the G1X will expand sensors solutions within this area.