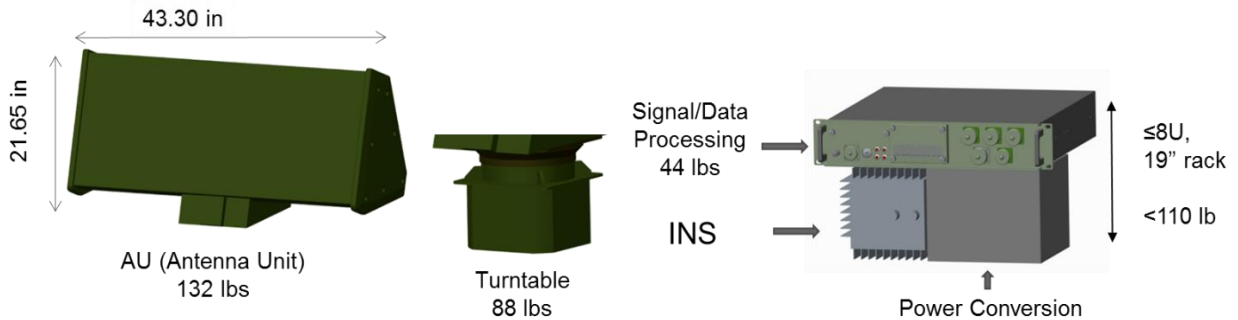


## Experimentation Description

Saab has previously developed 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 shown in following Figure 1.



**Figure 1 – 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 now continue to develop the GIRAFFE 1X system to meet specific requirements for other opportunities under discussion with other U.S. Government customers.

A complete system will be built, integrated into a pickup truck and tested in our lab. Saab has started to conduct demonstrations at our Radar Test Facility for interested customers and apply for STAs when needed to perform demos at military bases.

Saab Inc. 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.