

## **UPGRADE** from a mechanical scanned system. All the AESA benefits, at a fraction of the price.

- ★ Versatile installation with compact, high-performance computing in 3U VPX
- ★ Scaled to Fit; Scaled to Perform
- **★ Price point far less than the competition**
- **★** Open standards technology
- ★ Customizable for a variety of fighter and trainer aircraft

## **TECHNOLOGY AND CAPABILITIES**

- ★ Adaptable to various airframes
- ★ Cutting-edge high power density GaN devices
- ★ Integration with Duotech's proven radar processor
- ★ Built for total cost of ownership advantage
- ★ User-customizable interface
- ★ Target report hand-off to other systems
- ★ Debrief with actual terrain and weather
- ★ Full integration tool suite
- ★ Prioritized threat model search modes
- ★ Passive search capable



REQUEST MORE INFORMATION BY CALLING 828-369-5411 OR BY VISITING OUR WEBSITE AT

# Receiver/Processor

## RECEIVER / PROCESSOR

- » Adaptive processing and channel analysis
- » Open architecture hardware design (e.g. VPX VITA, AXIe, 802.3, MIL-STD-1553, ARINC-429, and other standards)
- » Standards-based tools and languages (VHDL, C#, Java, Matlab Coder)
- » Modern processing techniques for legacy platforms
- » Integrated master display and user interface when central computer unavailable
- » User installable application
- » Feature extensions

R/T Antenna

## R/T ANTENNA

- High efficiency Gallium Nitride, GaN, amplifiers
- » Scalable R/T "slice" building blocks allow a wide variety of antenna configurations to fit multiple aircraft or pod configurations
- » Designs for any mission or budget
- » Modular technology for ease of maintenance
- » Ultra high MTBF
- » Air or liquid cooled options
- Combination of active and passive element designs available

## **TECHNICAL SPECIFICATION**

**ARES** PN 3600700, 5.4kVA, 80kg

Alternate designs: 2.4kVA-6.8kVA,

62kg-89kg

Frequency X Band
Cooling Air or Liquid
Key Interface Ethernet

## **MODES AVAILABLE**

Air-to-Air Modes Long Range Nose Aspect

All Aspect Search Track While Scan Single Target Track

Air Combat HUDACQ

Boresight

Helmet Mounted Cueing

VERTACQ

Air-to-Surface Modes Real Beam

Doppler Beam Sharpening Sea Surface Search and

Track

GMTI (Optional)

Interleaved Modes Customer Configurable

Interleaved Air & Surface

Modes

Extended Functionality Helmet mounted cueing

Tactical data link EW system (jamming)

integration

IRST position handoff Weather Awareness Mode

## RADAR DISPLAY AND INTEGRATION

ARES leverages the same Processor LRU as Nemesis RADAR, which has been integrated with a modern mission system software and cockpit in the Tactical Air Support F-5 Advanced Tiger<sup>TM</sup>. ARES tactical RADAR interface gives a vast array of control, display, and configurability options.

ARES is fully configurable to meet even the most challenging SWaP-C restrictions on 3rd and 4th Generation Aircraft and interfaces can accommodate a variety of mission systems, display types and controls.

