



AN/TPY-5(V)1 3D Advantage Long Range Radar

Northrop Grumman has evolved its radar family to create a new, enhanced, digital solution.

3D Advantage is Northrop Grumman's next generation, software defined, hardware enabled long-range radar and the only advanced, digital multi-mode radar deployed and in operation, today.

- **Long-Range AESA:** Our 360° all-seeing radar provides a complete, operational picture and unambiguous view of the battlespace.
- **Multi-Mode:** More than just a surveillance radar, its multi-mission capability includes Comms functionality, cruise missile defense, detection of UAVs and low, slow, small targets, long-range surveillance, detection/tracking TBM targets and fire control capability providing superior performance while simultaneously maintaining 360 surveillance coverage to defeat current and future threats.
- **Technically Mature:** Don't develop, deploy to the field. Our advanced multi-mission solution is the only technically mature, production ready system – available to customers both domestic and international.

- **Advanced Modern Architecture:** Open architecture, C2 integration and the power of GaN have come together in Northrop Grumman's 3D Advantage AESA radar to enable a new level of protection and situational understanding for warfighters.
- **Expeditionary, Mobile, Survivability:** Validated logistics and sustainment programs offer the lowest lifecycle costs and significant capability growth for now and in the future.
- **Hardware Enabled, Software Defined:** In digital systems, hardware-dominant architectures become software-dominant. These fully software-defined systems evolve and enhance hardware capabilities with software updates. All-digital software-based systems can learn, change and even add functionality to a given system as the threat-driven need for change arises.

As an industry leader in developing mission-capable, cost-efficient radar and sensor systems, our systems utilize multifunction capabilities to observe, orient, and act across all domains – land, sea, air, and space – providing the joint forces the intel they need to operate safely in today's multi-domain operational environment.