

Raytheon's 360-degree AESA radar passes 3,000 hours of operations

Proposed upgrade to German Patriot Integrated Air and Missile Defense System

BERLIN, April 25 -- Raytheon Company's [NYSE:RTN] 360-degree capable, [gallium nitride](#) -powered [active electronically scanned array](#), a Raytheon funded and proposed upgrade to the [Patriot® Air and Missile Defense System](#), recently completed 3,000 hours of operation.

“The company-funded radar has demonstrated 360-degree capability, tracking tactical targets such as maneuvering fighter aircraft, simulated cruise and ballistic missiles, and drones,” said Tom Laliberty, Raytheon Vice President of Integrated Air and Missile Defense for Raytheon's Integrated Defense Systems business at the ILA Berlin Air Show.

To prove 360-degree capability of the Raytheon-funded radar, a main AESA GaN antenna array worked with a second GaN-based AESA antenna that was pointed in a different direction. As targets flew out of one array's field of view and into another, the two arrays seamlessly passed information back and forth, continuously tracking — and providing quality fire control data — on multiple targets.

“It is clear that our partner Raytheon's radar has far surpassed the decades-old, 20th-century gallium arsenide radar technology being proposed by the MEADS development project,” said Harald Mannheim, Rheinmetall's Senior Vice President and Head of Air Defence Programmes Germany. “Raytheon's AESA GaN technology is capable, mature and ideally suited for the needs of the German Air Force.”

Rheinmetall and Raytheon have a strategic teaming agreement, providing a full spectrum integrated air defense solution for the German Air Force.

“Our partner Raytheon is able to rapidly deliver this capability, ensuring that Germany will have the ability to defend its forces from threats in any direction, even, if required for the upcoming Baltic deployment in 2023 in support of NATO operations,” Mannheim added.

The Raytheon-funded GaN-based AESA radar will work with the Integrated Air and Missile Defense Battle Command System and other open architectures. It maintains compatibility with the current Patriot Engagement Control Station and is full interoperability with NATO systems, such as the German SAMOC.

About Rheinmetall

The Rheinmetall Group is a high-tech enterprise specializing in mobility and security solutions. Consisting of three divisions – Vehicle Systems, Electronic Solutions and Weapon and Ammunition – the Group’s Defense arm is one of the world’s foremost defense technology organizations. Its wide array of products ranges from vehicle, force protection and weapon systems to infantry equipment and air defense technology, and from engagement sequence networking to sensors and electro-optics as well as advanced simulation and training solutions. With some 23000 employees worldwide, the Düsseldorf based Group generated sales of €5.6 billion in 2016. Follow us on [Twitter](#).

About Raytheon

Raytheon Company, with 2017 sales of \$25 billion and 64,000 employees, is a technology and innovation leader specializing in defense, civil government and cybersecurity solutions. With a history of innovation spanning 96 years, Raytheon provides state-of-the-art electronics, mission systems integration, C5I™ products and services, sensing, effects, and mission support for customers in more than 80 countries. [Raytheon](#) is headquartered in Waltham, Mass. Follow us on [Twitter](#).

Rheinmetall and Raytheon are global partners since February 2017. Both companies work closely together in the fields of air defense, combat vehicles, weapons and ammunition,

cyber defense, simulation and training. In the new cooperation, the partners will address both the international markets and programs in their home markets of Germany and the USA.

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