Air and missile-defense radar contract signed between U.S. Army, Lockheed Martin

LISA DAIGLE, ASSISTANT MANAGING EDITOR

Lockheed Martin signed a contract with the U.S. Army, initially worth $281 million to develop the Sentinel A4 radar system, a high-performance modification of the Sentinel A3 (AN/MPQ-64A3) air and missile-defense radar that updates and improves the existing Sentinel capability against cruise missiles, unmanned aerial systems, and rotary-/fixed-wing threats.

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Radar market to reach $38.01 billion globally by 2025, study says

LISA DAIGLE, ASSISTANT MANAGING EDITOR

The global radar market is expected to be valued at $38.01 billion by 2025, according to a study conducted by Grand View Research, Inc., "Radar Market Size, Share & Trends Analysis Report By Component (Antenna, Transmitter, Receiver), By Service, By Platform, By Frequency Band, By Range, By End Use, By Region, And Segment Forecasts, 2019-2025."

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Laser aircraft defense system approved by State Department

EMMA HELFRICH, ASSOCIATE EDITOR

The U.S. State Department has approved the possible
sale of two AN/AAQ-24(V)N Large Aircraft Infrared Countermeasures systems to Qatar for $86 million.

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Surveillance radar R&D contract won by Raytheon
EMMA HELFRICH, ASSOCIATE EDITOR
Raytheon attained more than $500 million in a modified contract for research and development (R&D) of two types of advanced surveillance radar systems. The Missile Defense Agency (MDA) announced the $500,615,405 contract, which increases the total ceiling value from $461,492,695 to $962,108,100.

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Counter-swarm electromagnetic weapon developed by AFRL
The Air Force Research Laboratory (AFRL) Directed Energy Directorate at Kirtland Air Force Base, N.M., has developed a counter-swarm, high-power weapon called the Tactical High-power Operational Responder (THOR) to eliminate an enemy’s unmanned systems.

Rheinmetall's spectral coupling-based laser source reaches 20 kW

The laser team at Rheinmetall Waffe Munition GmbH has now attained an optical power of 20 kilowatts (kW) with a laser technology based on spectral coupling. The laser source was constructed and commissioned in cooperation with NKT Photonics Technology GmbH.

Lockheed Martin's Project Riot demonstrates multi-domain operations

SPEAR-EW electronic warfare weapon to be introduced by MBDA
EMMA HELFRICH, ASSOCIATE EDITOR

MBDA has been awarded a contract to demonstrate SPEAR-EW, a new electronic warfare version of the SPEAR weapon system family on order for the Royal Air Force (RAF). SPEAR-EW is being developed by MBDA in partnership with Leonardo to complete a wide range of Suppression of Enemy Air Defence (SEAD) missions, under a Technical Demonstration Programme (TDP) contract awarded by Defence Equipment & Support (DE&S).

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Radar, EW testing solutions from Rohde & Schwarz shown at DSEI 2019
LISA DAIGLE, ASSISTANT MANAGING EDITOR

Test and measurement equipment manufacturer Rohde & Schwarz is highlighting its radar and electronic warfare (EW) testing solutions at the DSEI 2019 show, held this week in London.

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Identification Friend or Foe systems to see upgrades
EMMA HELFRICH, ASSOCIATE EDITOR

Raytheon Company and Hanwha Systems signed a technical cooperation agreement to produce Identification Friend or Foe Mode 5 systems for the Korean military.

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Next-gen jammer mid-band on a Growler previewed by Raytheon
EMMA HELFRICH, ASSOCIATE EDITOR

Raytheon has provided first images of Next Generation Jammer Mid-Band on the EA-18 GROWLER as a sneak peek into its production.

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An A/D (Analog-to-Digital) converter, frequently abbreviated as ADC, accepts an analog voltage at the input and produces a digital representation of that voltage at the output that’s called a ?sample?. The two primary characteristics of A/Ds are the rate of conversion or sampling rate, expressed in samples per second, and the accuracy of each digital sample expressed as the number of binary bits or decimal digits per sample. The difference in sample rates between these two prominent examples is a staggering 10 orders of magnitude. There are thousands of A/D applications spread continuously throughout this range.

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Leveraging Open Standards and C4ISR for Multi-domain Challenges in Modern Warfare

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