AV Launches Titan 4 and Expands Titan Family, Ushering in the Next Era of RF Counter-UAS Dominance

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ARLINGTON, Va.--(BUSINESS WIRE)--May 6, 2025-- To meet the emerging air threats of today and the rapidly evolving threats of tomorrow, AeroVironment, Inc. (“AV”) (NASDAQ: AVAV) today announced **Titan 4**, the next generation of its battle-proven, warfighter-trusted Counter-Unmanned Aerial Systems (C-UAS) technology. Titan 4 is a smaller, lighter, more powerful, highly extensible Radio Frequency (RF)-based solution to detect and defeat Group 1 and 2 drone threats.

This press release features multimedia. View the full release here: https://www.businesswire.com/news/home/20250506079748/en/



AV Titan 4 RF Counter-UAS System, (Photo: AV)

Titan 4 is portable and mission-adaptable —supporting mobile, dismounted, or fixed-site use—and can deploy in under five minutes to identify and neutralize threats, creating a protective dome around personnel and infrastructure. Titan 4 is 17% lighter and 73% smaller than its dual-chassis predecessor, now integrated into a single compact chassis as compared to its dual-chassis predecessor. It offers nearly 250% more transmit power with 540W of total output over six RF bands to address both current and emerging threats. For enhanced airspace awareness, AV has integrated its **Titan-SV** system within Titan 4 to provide operators with AI/ML-backed passive, long-range precision threat detection.

“With over a thousand units in the field and hundreds of thousands of operational hours, our team has taken lessons learned from active deployments in rapidly evolving threat landscapes to develop the next era of RF C-UAS superiority,” said Trace Stevenson, President of AV’s Autonomous Systems Segment. "Smaller, lighter and more powerful, Titan 4 is poised to better respond to both individual threats and drone swarms in the harshest environments–using adaptive, autonomous, escalating countermeasures to protect our warfighters, allies, and infrastructure and ensure successful military operations.”

Titan 4 is the flagship solution in AV’s Titan C-UAS™ suite of autonomous RF counter-drone systems. In addition to Titan 4 and Titan-SV, AV is expanding this suite of solutions with technologies spanning from larger, fixed-site configurations to small, interoperable plug-and-play sensors:

Titan-MS is an AI-powered, multi-sensor technology that detects, identifies, tracks, defeats, and reports on unmanned system threats. As the largest, most powerful solution in the Titan family, Titan-MS (Multi-Sensor) is a multi-mission, multi-threat capability suitable for fixed-site installations in air, sea, and land domains. Fusing RF, radar, and optics with AI and ML algorithms from industry-leading sensors, Titan-MS detects, classifies, and defeats RF-controlled and autonomous drone threats —while also tracking human and vehicle movement. It provides operators with recorded video and detailed analytics for after-action review to continuously improve security operations.

Titan-EO/IR is a portable, multi-sensor platform to detect, identify, track, and defeat UAS threats. Leveraging the repeatable performance of Titan’s RF capabilities along with agile Middle Wavelength Infrared (MWIR) sensors, Titan-EO/IR integrates advanced sensor arrays into a unified interface, delivering full-spectrum airspace awareness.

Titan-SV LOB is a fixed-site or vehicle-mounted small-UAS (sUAS) detection and tracking solution that provides operators with the same long-range, 360° coverage of Titan-SV along with precise azimuth and elevation for all sUAS threats. For standard protocol sUAS, Titan-SV LOB (Line of Bearing) provides enhanced threat awareness with full 3D tracking. With proven commercial and government multi-sensor interoperability, plug-and-play compatibility with BlueSky 2" Mast systems, and a secure API supporting a wide array of integrations, Titan SV-LOB is a versatile, multi-domain C-UAS solution.

Titan-SV MOSA/SOSA is the next generation of Titan-SV in development, putting the passive threat detection power of Titan-SV on an open-architecture sensor card for maximum interoperability on a wide variety of multi-mission systems and open standard chassis. Using Sensor Open Systems Architecture (SOSA) and Modular Open Systems Approach (MOSA) frameworks, Titan-SV SOSA/MOSA promotes interoperability, scalability, and rapid modernization across defense platforms.

“From our fixed-site capabilities to our plug-in integrations, the Titan family of RF C-UAS solutions is a force multiplier for our warfighters,” said Jimmy Jenkins, Executive Vice President of AV’s Precision Strike and Defense Systems Group. “With a proven track record across Titan and Titan-SV deployments, we’re proud to roll out Titan 4 and a full family of Titan solutions to meet the critical multi-mission needs of our customers. We’re moving these innovations from prototype to full-scale production to quickly deliver our U.S.-made and manufactured units into the hands of warfighters who are protecting us at home and abroad.”

Titan was selected as a C-UAS Program of Record (POR) capability for an undisclosed Department of Defense customer in 2022. Since that time, the U.S. Army, Navy, Air Force, Marines, and Special Operations Forces have deployed more than 1,000 units globally to protect U.S., allied, and coalition forces and critical infrastructure. Domestically, Federal departments have deployed Titan systems for crowd protection at large gatherings and major sporting events. Internationally, countries across the North Atlantic Treaty Organization (NATO), Latin America, and other allied partners are trusting Titan to enhance their air defense capabilities against drone threats.

About AV

AV (NASDAQ: AVAV) is a defense technology leader delivering integrated capabilities across air, land, sea, space, and cyber. The company develops and deploys autonomous systems, precision strike systems, counter-UAS technologies, space-based platforms, directed energy systems, and cyber and electronic warfare capabilities—built to meet the mission needs of today’s warfighter and tomorrow’s conflicts. With a national manufacturing footprint and a deep innovation pipeline, AV delivers proven systems and future-defining capabilities with speed, scale, and operational relevance.

Safe Harbor Statement

Certain statements in this press release may constitute "forward-looking statements" as that term is defined in the Private Securities Litigation Reform Act of 1995. These statements are made on the basis of current expectations, forecasts and assumptions that involve risks and uncertainties, including, but not limited to, economic, competitive, governmental and technological factors outside of our control, that may cause our business, strategy or actual results to differ materially from those expressed or implied. Factors that could cause actual results to differ materially from the forward-looking statements include, but are not limited to, our ability to perform under existing contracts and obtain additional contracts; changes in the regulatory environment; the activities of competitors; failure of the markets in which we operate to grow; failure to expand into new markets; failure to develop new products or integrate new technology with current products; and general economic and business conditions in the United States and elsewhere in the world. For a further list and description of such risks and uncertainties, see the reports we file with the Securities and Exchange Commission. We do not intend, and undertake no obligation, to update any forward-looking statements, whether as a result of new information, future events or otherwise.

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