

North America Artificial Intelligence in Defense Market Forecast to 2028 -Regional Analysis By Component (Hardware, Software, and Services), Technology (Advanced Computing, AI Systems, and Learning and Intelligence), Platform (Land, Air, and Naval), and Application (Cyber Security, Battlefield Healthcare, Logistics and Transportation, Warfare Platform, and Others)

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Abstracts

The North America artificial intelligence in defense market is expected to grow from US\$ 3,102.81 million in 2023 to US\$ 5,169.26 million by 2028. It is estimated to grow at a CAGR of 10.7% from 2023 to 2028.

Growing Adoption of Artificial Intelligence in Unmanned Aerial Vehicles Fuels North America Artificial Intelligence in Defense Market

Unmanned aerial vehicles (UAVs) or drones based on AI technologies can be used in the military for security missions. These UAVs are equipped with various sensors and cameras that enable them to gather real-time information about the terrain and detect risks of potential threats for multiple applications, including warfare systems and cybersecurity. By using artificial intelligence and deep learning, UAVs constitute a new chance for autonomous operations and flight. Computer vision has progressed in image classification and segmentation and object detection, making it an attractive research field when applied on UAVs. Artificial intelligence is essential in UAVs in military operations for decision making. Shield AI provides Nova 2, a drone system capable of outdoor and indoor autonomous, self-directed flight. Nova operates independently in

complex and contested environments, leveraging AI to complete the task. Shield designed the Nova 2 to operate autonomously, without needing a human to control it remotely or for a constant connection to some distant data center. It also does not require a GPS signal to navigate and map its environment. The Shield AI's Nova2 drones have already been used by the US Special Operations Command since 2018, including in combat. Therefore, AI-based unmanned aerial vehicles add many benefits to the defense sector. Furthermore, advancements in artificial intelligence and machine learning and their integration with UAVs allow UAV manufacturers to advance their portfolios. Their state-of-the-art products help make real-time data-driven decisions by enabling high-speed data capture and processing. In February 2023, RealNetworks, Inc., a provider of AI and computer vision-based products, signed a US\$ 729,056 contract with US Air Force to deploy its facial recognition technology, SAFR, on small drones for special operations. These drones enhance the capabilities of the military force to better understand the situational awareness during ISR missions. Such partnerships, collaborations, and contracts for the adoption and development of UAVs with AI technologies boost the growth of the North America artificial intelligence in defense market.

North America Artificial Intelligence in Defense Market Overview

Ongoing advancements in artificial intelligence (AI) are presenting both exciting prospects and new hurdles for national security agencies. AI, which often coincides with the Fourth Industrial Revolution, has been driving scientific and technical innovations in North America. Military authorities in the US and Canada believe that technology has the potential to significantly alter the way military operations are carried out. For instance, the Pentagon's Defense Advanced Research Projects Agency (DARPA) has been exploring artificial intelligence (AI) to manage drones carrying military weapons and equipment to counter-strike enemies, as drone missions in the US that involve lethal force need human monitoring and supervision. Various defense organizations in North American countries focus on entering into partnerships to leverage the benefits of technologies. In July 2021, the North American Aerospace Defense Command (NORAD) and the United States Northern Command (NORTHCOM) collaborated with officials from 11 combatant commands to undertake a third round of the Global Information Dominance Experiments (GIDE). In each step of the testing, the present capabilities of three interconnected AI-enabled tools—Cosmos, Lattice, and Gaia—were demonstrated. As a result, the rising trend of incorporating AI in military operations is expected to bolster the North America artificial intelligence in defense market in the coming years.

North America Artificial Intelligence in Defense Market Revenue and Forecast to 2028 (US\$ Million)

North America Artificial Intelligence in Defense Market Segmentation

The North America artificial intelligence in defense market is segmented into component, technology, platform, application, and country.

Based on component, the North America artificial intelligence in defense market is segmented into hardware, software and services. The software segment held the largest share of the North America artificial intelligence in defense market in 2023.

Based on technology, the North America artificial intelligence in defense market is segmented into advanced computing, ai systems and learning and intelligence. The advanced computing segment held the largest share of the North America artificial intelligence in defense market in 2023.

Based on platform, the North America artificial intelligence in defense market is segmented into naval, land, and air. The land segment held the largest share of the North America artificial intelligence in defense market in 2023.

Based on application, the North America artificial intelligence in defense market is segmented into cyber security, battlefield healthcare, logistics and transportation, warfare platform and others. The warfare segment held the largest share of the North America artificial intelligence in defense market in 2023.

Based on country, the North America artificial intelligence in defense market is segmented into the US, Canada, and Mexico. The US dominated the share of the North America artificial intelligence in defense market in 2023.

BAE Systems Plc; Charles River Analytics, Inc.; General Dynamics Information Technology, Inc.; International Business Machines Corp; Leidos Holdings Inc; Lockheed Martin Corp; Raytheon Technologies Corp; Shield AI; SparkCognition Inc; Thales SA are the leading companies operating in the North America artificial intelligence in defense market.

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