

# Electronic Device Solution Inc. Targets U.S. Defense and Aerospace Markets with GaN-Based RF Total Solutions

DAEJEON, SOUTH KOREA, August 28, 2026 /EINPresswire.com/ -- [Electronic Device Solution Inc.](#) (CEO Byeongok, Lim) is expanding its presence in the U.S. defense and aerospace markets by leveraging its GaN (Gallium Nitride)-based high-frequency semiconductor technology and RF Total Solution capabilities. Electronic Device Solution Inc. specializes in GaN MMICs (Monolithic Microwave Integrated Circuits) used in defense, aerospace and radar applications, as well as RF components, modules and systems. The company has established full-stack capabilities that enable it to manage the entire process in-house, from chip design and product development to measurement, testing, production and packaging.



The company's core product lineup includes GaN MMICs supporting various frequency bands such as X-band and Ku-band, along with transmit/receive modules (TRM), high-power amplifiers (HPA), low-noise amplifiers (LNA) and RF switches. These products serve as key RF components that determine the transmission and reception performance and system reliability of AESA (Active Electronically Scanned Array) radar systems. Rather than limiting itself to the supply of individual semiconductor chips, Electronic Device Solution Inc. differentiates itself through its full-stack capabilities, which enable the company to provide integrated RF solutions encompassing semiconductor design, modularization and system integration tailored to each customer's required frequency, output power and system architecture. This technological capability has been built through Electronic Device Solution Inc.'s participation in major South Korean defense projects. The company has taken part in key domestic weapons system localization projects, including the development of core chips and modules for fighter aircraft AESA radar systems, as well as long-range air defense and low-altitude defense programs.

Through these projects, Electronic Device Solution Inc. has secured the high reliability and precise RF performance required for defense systems, while also accumulating hands-on

experience across the full project lifecycle, from design and prototyping to testing & production.

On the production side, Electronic Device Solution Inc. operates a FAB-Lite model that combines its own cleanroom-based assembly and testing infrastructure with partnerships with domestic and international foundries. This allows the company to efficiently respond to the low-volume, high-mix production demands of the defense & aerospace sectors, which require high performance and high reliability rather than large-scale, general-purpose manufacturing. It also provides the flexibility needed for customer-specific design, precision testing, product improvement and rapid production transitions. In addition, through a high level of domestic localization, the company is reducing procurement risks associated with global supply chain volatility and overseas export controls, while building a stable product supply system.

Focusing on its GaN MMIC technology, Electronic Device Solution Inc. continues to expand its core RF product lineup, including power amplifiers, low-noise amplifiers, switches and transmit/receive modules, while building a product portfolio that covers a range of frequency bands such as S-band, X-band, Ku-band and Ka-band. These capabilities allow the company to expand beyond traditional defense applications such as radar & electronic warfare into satellite communications and next-generation communications.

Electronic Device Solution Inc. plans to actively expand cooperation with defense contractors, radar system companies, satellite communications operators and aerospace companies in the U.S. market. In particular, the company is identifying growing demand for high-frequency, high-power RF technology in areas such as low Earth orbit (LEO) satellite communications, next-generation 6G communications and urban air mobility (UAM) radar as new growth markets.

Building on its proven GaN RF technology in the defense sector and its full-stack capabilities, Electronic Device Solution Inc.'s strategy is to strengthen its position in the global market not merely as a semiconductor supplier, but as an RF total solution provider. The company plans to expand the scope of its cooperation with overseas customers to include joint development, customized MMIC design and the supply of modules and systems tailored to their needs, positioning itself as a reliable partner in the global RF semiconductor supply chain.

For more information, please visit <https://edevicesolution.com/eng/main/index.html>

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