# K-PA Introduces KXL1 X-Band GaN MMIC LNA for Rugged Radar and SAR Receiver Applications at IMS 2026

*Specialized Korean RF semiconductor company highlights X-band GaN MMIC LNA.*

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**BOSTON, June 2026** –K-PA Inc. (Korea Power Amplifier Innovator), a specialized RF semiconductor company, today announced the introduction of the KXL1, a high-performance X-band GaN MMIC Low Noise Amplifier (LNA) designed for radar, synthetic aperture radar (SAR), satellite communications, and phased-array receiver applications.

The KXL1 operates across the 7.0 to 12.0 GHz frequency range and delivers a typical noise figure of 1.45 dB together with 26 dB of small-signal gain. The device also provides approximately 19 dBm saturated output power while operating from a 6 V supply.

Built on GaN technology, the KXL1 addresses the growing demand for receiver solutions capable of maintaining low-noise performance while offering improved robustness in high-power RF environments. Compared with conventional receiver technologies, GaN-based LNAs can provide enhanced tolerance to transmitter leakage, strong interfering signals, and demanding operational conditions frequently encountered in modern radar and aerospace systems.

The device is particularly well suited for X-band SAR payloads, active electronically scanned array (AESA) radars, electronic warfare systems, and satellite communication terminals, where receiver reliability and linearity are becoming increasingly important alongside low-noise performance.

"The industry often associates GaN technology with power amplifiers, but its advantages can also extend to next-generation receiver architectures," said Kiburm (K) Ahn, Managing Director of K-PA Inc. "With the introduction of KXL1, K-PA expands its GaN portfolio beyond transmit functions and further strengthens its capability to support complete X-band front-end solutions."

The KXL1 complements K-PA's growing family of X-band GaN MMIC products, including high-power amplifiers, integrated front-end modules, and custom MMIC development services. Together, these technologies enable system developers to build highly integrated RF subsystems using a common GaN technology platform.

Engineering samples and technical information are available upon request

For more information, visit K-PA at Booth #24016 during IMS 2026 or contact kpa@k-pa.co.kr.

## About K-PA Inc.

K-PA Inc. (Korea Power Amplifier Innovator) is a specialized RF semiconductor company focused on the development and volume supply of high-performance GaN MMIC solutions for radar, aerospace, satellite communications, electronic warfare, and defense applications. Under the corporate banner, "For a safer world, we never stop developing and improving," K-PA delivers cost-effective and practical engineering designs that solve real-world sub-system challenges. For more information, please visit **www.k-pa.co.kr**.

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