



الهيئة العامة للصناعات العسكرية
General Authority for Military Industries



Standard Incentives Investment Opportunities

GaN RF Transistors and High-Performance Semiconductor Devices



GaN RF Transistors and High-Performance Semiconductor Devices



Investment Opportunity Description

- ✦ **Establish local manufacturing capabilities for Gallium Nitride (GaN)-based high-performance components and other semiconductor devices** used in communication and radar systems, as well as energy-efficient applications such as electric vehicles, smart grids, and industrial equipment.
- ✦ **Targeted Products:** GaN RF HEMT transistors for communication applications, GaN power devices including high-voltage transistors and amplifiers, semiconductor transducers for sensing and control.



Investment Rationale

STRATEGIC BENEFITS

- ✦ **Foundational Enabler of Digital Industries:** Localizing semiconductor manufacturing strengthens the backbone of KSA's ambitions in electronics, computing, renewable energy, and telecommunications
- ✦ **Advancing National Tech Sovereignty:** Developing in-country capabilities in chip design, assembly, and testing reduces reliance on global supply chains and empowers domestic innovation ecosystems

KEY GROWTH DRIVERS

- ✦ **Industrial Applications:** RF and sensing components are essential for precision industrial technologies
- ✦ **Telecom and Electronics Expansion:** Increasing investments in 5G infrastructure, consumer electronics, and automotive systems are driving demand for high-performance RF and power semiconductors
- ✦ **Renewable Energy and Smart Grid Demand:** Deploying solar technologies, smart meters, and energy-efficient systems is increasing the need for PV cells, sensors, and power electronics



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Thank you