



## GENERAL MICROWAVE | SPACE CAPABILITIES



**KRATOS General Microwave** is a globally recognized leader in the design and manufacture of high-performance, state-of-the-art multidisciplinary microwave components and subassemblies, addressing both the defense and non-defense markets. With over 50 years of proven expertise and an unwavering commitment to quality and reliability, we continue to set industry standards.

To meet the specific needs of our customers, **KRATOS General Microwave** offers cutting-edge multidisciplinary microwave technologies. These include embedded DSP, mixed-signal processing, System-On-Chip (SOC) devices, high-power amplifiers, FPGA, and other advanced digital technologies. Our solutions support a wide range of applications such as space, smart/guided munitions, electronic warfare, radars, navigation warfare, communications, UAVs, and homeland security (HLS).

In addition to these capabilities, **KRATOS General Microwave** leverages its extensive multidisciplinary technical knowledge and experience to develop and deliver space-qualified and new-space products, meeting the rigorous demands of this specialized field.

### KRATOS General Microwave technology and solutions for Space applications

#### Proven Excellence Across Diverse Space Platforms:

KRATOS General Microwave's cutting-edge technology and solutions for space applications have been successfully integrated into a wide range of space platforms, serving both defense and commercial sectors.

- Platforms spanning from **LEO (Low Earth Orbit)** to **GEO (Geostationary Orbit) Satellites**
- Products ranging from **New Space innovations** to **ESA-qualified solutions**

#### KEY Solutions Characteristic:s

- Flexible offerings: **Simple Discrete Modules** to **Complete Subsystems**
- Both **Catalog Products** and **Custom-Designed Solutions**
- Designed for **High Reliability** and **Long-Term Performance**
- **Low Power Consumption** for optimal efficiency
- **Implemented Redundancy** to enhance reliability in critical operations
- Designed with a **Minimized Number of Active Components** to reduce complexity
- Built to **Withstand the Unique Environmental Conditions of Space**
- **Value** without compromising on **quality**
- **Fast Development Cycle** and **On-Time Delivery**



At **KRATOS General Microwave**, we prioritize efficiency and reliability, ensuring:

- **Accelerated Development Cycles** to meet project timelines without compromising quality.
- **On-Time Delivery** to support your mission-critical applications and maintain operational schedules.

**Our commitment** to delivering excellence, both in speed and precision, sets us apart as a trusted partner for advanced space solutions.

**With decades of experience** and a deep commitment to innovation and quality, KRATOS General Microwave delivers solutions tailored to the demanding needs of space applications.

### Policy & Infrastructure

At **KRATOS General Microwave**, we adhere to a stringent policy framework and maintain advanced infrastructure to ensure the highest standards for space applications:

- **Space Policy:**

Our quality control, development, engineering, and production phases are aligned with **ESA (European Space Agency) requirements and standards**, ensuring reliability and excellence in every product. This includes:

- Implementation of comprehensive procedures
- Rigorous components selection
- Thoughtful material selection
- Precise tooling selection and definition
- **Advanced Facilities:**

**Class 100,000 Clean Room (ISO Class 8 / FED-STD 209E)** to support the production of space-grade components under highly controlled environmental conditions.



**Our commitment** to ESA-level standards and world-class infrastructure underscores our dedication to delivering top-quality solutions for space applications.

### High level multidisciplinary electronics

**KRATOS General Microwave** delivers advanced, integrated systems that are high-performance, efficient, and reliable. These systems combine expertise in RF, digital, software, firmware and power supply technologies to meet the demanding requirements of space applications.

- **RF Solutions:**

- Frequency range from **low frequencies** up to **Ka, Q, and V bands**
- **Discrete Single-Function Components:** switches, amplifiers, Wideband frequency sources/Synthesizers
- **Integrated Microwave Assemblies:** Up/Downconverters, Transmit & Receive Modules (TRM), RF Front Ends, Transceivers

- **Digital Solutions:**

- **FPGA-Based Controller Modules** for precise RF control
- **State-of-the-Art RFSoc FPGA Integration:** combining high-performance sampling systems with cutting-edge FPGA fabric and ARM processors for complex system integration

**Our multidisciplinary** approach ensures seamless integration, exceptional performance, and reliability across all systems, making **KRATOS General Microwave** a leader in advanced electronics for space applications.

### **KRATOS | GENERAL MICROWAVE** Microwave Electronics Division

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