Micro Module Manufacturers



Overview

This section provides an overview for microelectronics & semiconductor packages as well as their applications and principles.

Key Takeaways

Micro-modules are produced by a variety of manufacturers specializing in microelectronics, microcontrollers, memory modules, and functionalized micro- and nanoparticles. Microelectronic & Semiconductor Package ManufacturersCompanies producing microelectronic packages, which are essential for protecting and connecting semiconductor chips, include ISI - Interconnect Systems, Mercury, and Amkor Technology. These manufacturers provide packages for devices ranging from smartphones to advanced sensor systems, using materials like resin, metal, and ceramics to enhance performance and durability.

Microcontroller Manufacturers

For microcontroller-based micro-modules, leading manufacturers include Microchip Technology, NXP (formerly Freescale), Espressif Systems, ELAN Microelectronics, and Infineon Technologies. These companies produce microcontrollers for automotive, IoT, industrial automation, and consumer electronics applications, often integrating wireless connectivity, security features, and energy-efficient designs.

Memory Module Manufacturers

Memory micro-modules, such as DRAM and NVDIMM modules, are supplied by companies like Micron Technology, SMART Modular, and Unigen. These manufacturers focus on high-performance, reliable memory solutions for computing, data centers, and storage applications.

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Micro- and Nanoparticle Manufacturers

For specialized micro-modules in research and diagnostics, micromod Partikeltechnologie GmbH produces monodisperse micro- and nanoparticles, including chemically surface-functionalized and magnetic particles. These are used in in-vitro diagnostics, high-throughput screening, magnetic bioseparation, and cell labeling.

Summary

Depending on the type of micro-module required—whether for electronics, memory, microcontrollers, or biomedical applications—different manufacturers specialize in each area.

IS

I, Amkor, and Mercury focus on microelectronic packages; Microchip, NXP, and Espressif on microcontrollers; Micron and SMART Modular on memory modules; and micromod on functionalized micro- and nanoparticles. This diversity allows sourcing micro-modules tailored to specific industrial, research, or consumer needs.

Article Content

20 Microelectronic & Semiconductor Package Manufacturers in 2026

This section provides an overview for microelectronics & semiconductor packages as well as their applications and principles. Also, please take a look at the list of 20 microelectronic & semiconductor

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Top 7 microcontroller manufacturers helping engineers build smarter devices Renesas Electronics Bottom Line: Renesas remains the undisputed

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Micro Modules | TDK Electronics

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Micron engineers advanced memory and storage solutions designed to meet the dynamic demands of industrial IoT and aerospace systems. Our technologies provide exceptional performance, reliability,

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Memory Chip Manufacturers: Who Makes Memory Chips and Where

A comprehensive guide covering TSMC, Intel, Samsung, SK Hynix, Micron, Chinese domestic manufacturers, global production locations, and AI memory chip suppliers — everything

DRAM modules | Micron Technology Inc.

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