onsemi

/ Products / Custom & ASSP
/ SoC, SiP, & Custom Products

SoC, SiP, & Custom Products

Custom Products & Solutions

onsemi is a leading supplier of System-on-Chip (SoC), Application Specific Integrated Circuit (ASIC), and other custom solutions, supporting a wide range of applications in the automotive, industrial, medical, and aerospace & defense markets. **onsemi** has designed and manufactured more than 5,000 custom integrated circuits over the last 50 years.

System on Chip (SoC)

System in Package (SiP)

ASIC Technology

Integrated Passive Devices

Greenthread Ex 2053, p. 1
Semiconductor v. Greenthread
IPR2023-01243

FPGA TO ASIC

ASIC TO ASIC

Custom Foundry Services

onsemi supports Foundry projects with program managers, Customer Service Resources, and product marketing managers, from design engineering, through prototypes, and into production.

Learn More

Benefits

Advanced, integrated SoC and ASIC devices enable optimized performance and power efficiency, through integration. Security of intellectual property may be enhanced through hardware embedding. The elimination of inter-package connections may reduce noise. In addition, the reduction in the number of components may:

Greenthread Ex 2053, p. 2
Semiconductor v. Greenthread
IPR2023-01243

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Reduce required board space

Simplify board routing and testing

Improve reliability

Lower bill of materials (BOM) cost

Design and Manufacturing Expertise

System Architects at **onsemi** have detailed knowledge of fabrication process technologies and packaging capabilities, and are able to advise on system architecture, refine design specifications, identify IP, and align to most appropriate technology.

Greenthread Ex 2053, p. 3
Semiconductor v. Greenthread
IPR2023-01243

(DMEA).

onsemi owns and operates wafer fabs, assembly and test facilities. In-house capabilities include CMOS and BCDMOS process technologies, with line widths of 110 nm to 0.5 µm, on wafer diameters of 150 mm to 200 mm. Third-party relationships augment the company's internal manufacturing capability as required.

Responsive, Reliable World-Class Supply Chain and Quality Program

onsemi operates a flexible, reliable, responsive supply chain that supports complex manufacturing networks and dynamic global market conditions. This includes multiple manufacturing and logistics sites located near our customers to ensure supply continuity. The company shipped over 62 billion units through its global logistics network during 2016, representing ~8 units per person on earth. **onsemi** sustains world-class quality performance, and is certified to multiple international quality standards and programs.

Greenthread Ex 2053, p. 4
Semiconductor v. Greenthread
IPR2023-01243

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Greenthread Ex 2053, p. 5
Semiconductor v. Greenthread
IPR2023-01243