

Outsourced Semiconductor Assembly and Test (OSAT) Market Industry Analysis 2021-2028

The Global Outsourced Semiconductor Assembly and Test (OSAT) Market Expected to Reach a high CAGR of 6% By 2028

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Market Overview

The Global Outsourced Semiconductor Assembly and Test (OSAT) Market Expected to Reach a high CAGR of 6% By 2028

OSAT growth has been driven by shipments for packages found in smartphones and strong growth in power devices and electronic content in vehicles.



The Worldwide "Outsourced Semiconductor Assembly and Test (OSAT) Market" predicted to Reach a high CAGR of 6% By 2028"

DataM Intelligence

Outsourced Semiconductor Assembly and Test (manufacturing) provide third-party IC-packaging and test services. The OSATs are merchant vendors. IDMs and foundries with internal packaging operations also outsource a certain percentage of their IC-packaging production to the OSATs. The fabless companies also outsource their packaging to the OSATs and/or foundries.

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Growing electronics devices and technologies to drive is the major driver for market growth.

Moreover, Copper pillar technology is increasing in popularity to deal with decreasing feature sizes on silicon, mobile device form factors, and other technical challenges of today's flip-chip

devices.

The report covers all the major trends and drivers playing a vital role in the growth of the global OSAT market. The global OSAT market has been segmented based on Service, Types of Packaging, Application, and Region.

Market Dynamics

The global OSAT market growth is primarily driven by increased demand for consumer electronics like TV, mobile phones, tablets, etc. The growing disposable income of people worldwide is the major reason for the rise in the sales of consumer electronics. Particularly increasing smart devices (like mobile phones, smartwatches, smart cameras, and others) penetration across the globe will be the major driver of the OSAT market in the forecast period.

The growing technology advancements like greater connectivity and automation in the vehicle are increasing focus and value on the Human Machine Interface. So, for luxurious, safe, and smart vehicles, automotive manufacturers are increasingly developing automobiles with integrated infotainment systems that provide a combination of entertainment and information for an enhanced in-vehicle experience. Increasing vehicle production will be driving the market for OSAT in the following period.

In the automotive sector, the adoption of safety-related electronics systems has grown rapidly. Automotive semiconductor vendors will benefit from a surge in demand for various semiconductor devices in cars, including microcontrollers (MCUs), sensors, and memory. Automation, electrification, digital connectivity, and security will add more semiconductor content to automotive electronics and subsystems in the next decade. Therefore, fueling growth in the global OSAT market over the forecast period.

Market Segmentation

By Service

- Packaging
- Testing

By Types of Packaging

- Ball Grid Array
- Chip-Scale Package
- Stacked Die
- Multi-Package
- Quad and Dual

By Application

- Automotive
- Networking and communication
- Consumer Electronics
- Others

Regional Analysis

By geography, the global OSAT Market is segmented into North America, Asia-Pacific (APAC), Europe, South America, and the Middle East and Africa (MEA).

In 2018, the Asia Pacific OSAT market segment was the most predominant of the global OSAT market owing to the presence of a large number of companies in this region and growing demand for consumer electronics such as smartphones, tablets and rising demand for automobiles from countries like China, Japan, South Korea, and India.

According to SEMI, the worldwide semiconductor manufacturing and inspection equipment billings reached USD 16.7 billion in the second quarter of 2018, out of which USD 13.2 billion market share of semiconductor inspection and manufacturing equipment was occupied by Asian countries like Korea, China, Taiwan, and Japan accounting for a whopping 80% global share.

In North America, the high presence of semiconductor-based equipment manufacturers across the region such as Intel, Qualcomm, Texas Instruments, and increasing R&D investment by the government & non-government organizations are the factors driving the North America OSAT market.

Currently, the United States invests USD 1.5 billion to USD 5 billion to develop advanced materials, designs, and architecture in semiconductors to boost the overall performance of chips.

United States dominates the North American OSAT market due to growing consumer electronics products to meet the growing consumer demand for electronic products. The trade war between the United States and global suppliers for semiconductor materials in China hinders the market growth of OSAT during the forecast period.

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Competitive Analysis

Global OSAT Market is a moderately fragmented market with various global and regional players in the market. Earlier, commercial foundries have ruled semiconductor manufacturing while the Outsourced Semiconductor Assembly and Test providers (OSATs) have dominated IC packaging and testing. But as the industry moves toward stacked die over the next couple of years, and big foundries will like to expand their reach globally.

The major players include ASE Technology Holding Co., Ltd., Amkor Technology, Inc., Powertech Technology Inc., ChipMOS TECHNOLOGIES INC., King Yuan Electronics Co Ltd., Formosa Advanced Technologies Co., Ltd., Jiangsu Changjiang Electronics Technology Co., Ltd., UTAC Holdings Ltd., Lingsen Precision Industries Ltd., TongFu Microelectronics, Hana Micron, Tianshui Huatian Technology Co., Ltd., and among others.

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