

US Semiconductor Assembly and Testing Services Market: Segmented by Service (Assembly and packaging services and Testing services); By Application (consumer electronics, automotive, medical, industrial, and other applications) and Region – Global Analysis of Market Size, Share & Trends for 2019–2020 and Forecasts to 2031

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Abstracts

[175 + Pages Research Report] Global US Semiconductor Assembly and Testing Services Market to surpass USD 88.2 billion by 2031 from USD 52.8 billion in 2021 at a CAGR of 5.27% in the coming years, i.e., 2021-31.

Product Overview

Semiconductor industry plays a vital role in allowing the application of cutting-edge digital technologies in many industries, such as consumer electronics, automotive, medical, IT, and telecommunications. It saves time and money as well as reduces human efforts. The use of control systems, comprising computers or robots, and information technologies for managing different processes and machinery help maximize the productivity degree of any company.

Market Highlights

US Semiconductor Assembly and Testing Services Market is expected to project a notable CAGR of 5.27% in 2031

With growth in advanced technologies such as autonomous driving, 5G, artificial intelligence, and Internet of Things (IoT); and increasing research and development investments by semiconductor designing and manufacturing corporations present in the

country, the US semiconductor industry is expected to witness a robust growth over the forecast period of 2021 to 2031.

Global US Semiconductor Assembly and Testing Services Market: Segments
Assembly and packaging services segment to grow with the highest CAGR during 2021-31

US Semiconductor Assembly and Testing Services Market is divided by Service Type into assembly and packaging services and testing services. Assembly and packaging services segment to be a larger contributor to the Semiconductor Assembly and Testing Services Market. This is due high demand of semiconductors in consumer electronics, automotive, medical, space, and military, and many others.

Consumer electronics segment to grow with the highest CAGR during 2021-31

US Semiconductor Assembly and Testing Services Market is divided by Application into consumer electronics, automotive, medical, industrial, and other applications. Consumer electronics segment held the largest share in 2020 due to increasing demand for audio/video equipment, cameras, calculators, and smart homes. The consumer electronics industry players are engaged in R&D to come up with new ways to overcome the challenges related to flexibility, reliability, and costs of products.

Market Dynamics

Drivers

Rising Demand for Consumer Electronics

The consumer electronics industry has grown significantly with the elevated use of smartphones, desktops, digital cameras, tablets, laptops, hard disks, and televisions, among others, owing to new technological developments. For instance, the growing implementation of 5G networks is generating strong opportunities for the market players to develop advanced RF modules for connectivity using system-in-package technology.

Increasing demand for small form factor-based electronic devices

The growing demand for small form factor-based electronic devices, specifically for health monitoring and smartphones, contributes to the global semiconductor assembly and testing services market growth. However, the lockdown imposition by various governments amid the COVID-19 pandemic caused in low production of commodities,

goods, and services.

Restraint

High capital costs

High capital costs related to high-end packaging services provision, volatility of prices in the market, and uncertainty in exchange rates will remain pose a negative impact on the Semiconductor Assembly and Testing Services Market.

Global US Semiconductor Assembly and Testing Services Market: Key Players
Amkor Technology

Company Overview, Business Strategy, Key Product Offerings, Financial Performance, Key Performance Indicators, Risk Analysis, Recent Development, Regional Presence, SWOT Analysis

ASE Group

Unisem Group

DPA Components International (DPACI)

GlobalFoundries U.S. Inc.

Golden Altos Corporation

Grinding & Dicing Services, Inc.

Micross

Precision Test Solutions

Promex Industries Inc.

SkyWater Technology

Other Prominent Players

US Semiconductor Assembly and Testing Services Market: Regions

The United States is one of the largest markets for Semiconductor Assembly and Testing Services across the world. The country is the early adopter of digital transformation strategies that witness the growth in Semiconductor Assembly and Testing Services Market in the region.

US Semiconductor Assembly and Testing Services Market report also contains analysis on:

US Semiconductor Assembly and Testing Services Market Segments

By Service

Assembly and packaging services

Testing services

By Application

consumer electronics

automotive

medical

industrial

other applications

US Semiconductor Assembly and Testing Services Market Dynamics

US Semiconductor Assembly and Testing Services Market Size

Supply & Demand

Current Trends/Issues/Challenges

Competition & Companies Involved in the Market

Value Chain of the Market

Market Drivers and Restraints

US Semiconductor Assembly and Testing Services Market Report Scope and

Segmentation

Report Attribute Details

Market size value in 2021 USD 52.8 billion

Revenue forecast in 2031 USD 88.2 billion

Growth Rate CAGR of 5.27% from 2021 to 2031

Base year for estimation 2020

Quantitative units Revenue in USD million and CAGR from 2021 to 2031

Report coverage Revenue forecast, company ranking, competitive landscape, growth factors, and trends

Segments covered Application, Service Type, and Region

Key companies profiled Amkor Technology, ASE Group, Unisem Group, DPA,

Components International (DPACI), GlobalFoundries, U.S. Inc., Golden Altos

Corporation, Grinding & Dicing Services, Inc., Micross, Precision Test Solutions, Promex

Industries Inc., SkyWater Technology Other Prominent Players

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4. DPA COMPONENTS INTERNATIONAL (DPACI)

5. GLOBALFOUNDRIES U.S. INC.

6. GOLDEN ALTOS CORPORATION

7. GRINDING & DICING SERVICES, INC.

8. MICROSS

9. PRECISION TEST SOLUTIONS

10. PROMEX INDUSTRIES INC.

11. SKYWATER TECHNOLOGY

12. OTHER PROMINENT PLAYERS

Consultant Recommendation

****The above-given segmentations and companies could be subjected to further modification based on in-depth feasibility studies conducted for the final deliverable.**

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