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Middle East & Africa 3D Stacking Market Forecast to 2031 - Regional Analysis by Interconnecting Technology (Through-Silicon Via, Monolithic 3D Integration, and 3D Hybrid Bonding), Device Type (Memory Devices, MEMS/Sensors, LEDs, Imaging & Optoelectronics, and Others), and End User (Consumer Electronics, Telecommunication, Automotive, Manufacturing, Healthcare, and Others)

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Abstracts

The Middle East & Africa 3D stacking market was valued at US$ 104.90 million in 2023 and is expected to reach US$ 301.83 million by 2031; it is expected to record a CAGR of 14.1% from 2023 to 2031.

Fast Processors for Gaming Purposes Bolster Middle East & Africa 3D Stacking Market

The gaming industry is continuously growing across the globe, with a rise in video game players. According to Accenture, in 2021, the gaming industry exceeded US$ 300 billion in value and is projected to reach over 400 million new gamers by 2023. The industry witnessed an increase of half a billion players in the past three years, accounting for 2.7 billion people worldwide. The launch of new gaming platforms and changing demographics are diverting gaming businesses from being product-centric by encouraging them to launch experience-oriented platforms. According to Accenture, gamers spend an average of 16 hours per week playing, eight hours watching or participating in game streams, and six hours interacting in game forums and communities. These social interactions are one of the primary drivers of online gaming's growth. The growing number of online gamers increases the need for high-speed

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processors among gamers. In April 2022, Advanced Micro Devices Inc. released a Ryzen 7 5800X3D Gaming Processor to improve and enhance gamers' experience. Ryzen 7 5800X3D gaming processor is designed with 3D stake technology that can deliver an average of 15% more gaming performance at 1080p. Further, processor speed is important, particularly when it comes to gaming and other intense tasks. Faster processors can cut load times, allowing users to get into their games quickly. They also facilitate multitasking by allowing numerous applications and programs to operate concurrently without causing slowdowns or lag. Also, greater processing speeds enable higher graphical settings and frame rates in games, resulting in a smoother experience with no stuttering or noticeable lag. Thus, the growing integration of fast processors for gaming purposes is expected to emerge as a significant trend in the 3D stacking market in the coming years.

Middle East & Africa 3D Stacking Market Overview

In the Middle East & Africa (Middle East & Africa), the 3D stacking market is segmented into South Africa, the UAE, Saudi Arabia, and the Rest of Middle East & Africa. In 2021, Saudi Arabia exported US$ 3.16 million and imported US$ 54.7 million of semiconductor devices, ranking as the 66th and 63rd largest exporter of semiconductor devices worldwide. With this, the usage of 3D stacking has increased in the semiconductor industry. Furthermore, the consumer electronic sector in the Middle East & Africa has experienced substantial growth over the last decade owing to the rise in investments in the sector by private and public sectors. In October 2021, Samsung Electronics announced the launch of Samsung Newsroom Middle East and North Africa (MENA); this will serve as the official news source for Samsung Electronics for MENA media and consumers. This launch complies with the company's mandate to cater to customers and keep them informed of the company's updates and announcements in Arabic to attract more viewers in nine MENA countries. 3D stacking is widely used in electronic devices, such as smartphones. 3D NAND flash memory is used in smartphones to provide high storage capacity and fast data access speeds. Therefore, such product launches and investments in the development and adoption of consumer electronics are expected to propel the 3D stacking market in the Middle East & Africa during the forecast period.

Middle East & Africa 3D Stacking Market Revenue and Forecast to 2031 (US$ Million)

Middle East & Africa 3D Stacking Market Segmentation

The Middle East & Africa 3D stacking market is categorized into interconnecting

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technology, device type, end user, and country.

Based on interconnecting technology, the Middle East & Africa 3D stacking market is segmented into through-silicon via, monolithic 3D integration, and 3D hybrid bonding. The through-silicon via segment held the largest market share in 2023.

By device type, the Middle East & Africa 3D stacking market is segmented into memory devices, mems/sensors, LEDs, imaging & optoelectronics, and others. The memory devices segment held the largest market share in 2023.

In the terms of end user, the Middle East & Africa 3D stacking market is segmented into consumer electronics, telecommunication, automotive, manufacturing, healthcare, and others. The consumer electronics segment held the largest market share in 2023.

By country, the Middle East & Africa 3D stacking market is segmented into South Africa, the UAE, Saudi Arabia, and the Rest of Middle East & Africa. Saudi Arabia dominated the Middle East & Africa 3D stacking market share in 2023.

Samsung Electronics Co Ltd; Intel Corp; MediaTek Inc.; Texas Instruments Inc; Amkor Technology Inc; ASE Technology Holding Co Ltd; Advanced Micro Devices Inc.; 3M Co.; and Globalfoundries Inc are some of the leading companies operating in the Middle East & Africa 3D stacking market.

Reason to buy

- Save and reduce time carrying out entry-level research by identifying the growth, size, leading players, and segments in the Middle East & Africa 3D stacking market.
- Highlights key business priorities in order to assist companies to realign their business strategies.
- The key findings and recommendations highlight crucial progressive industry trends in the Middle East & Africa 3D stacking market, thereby allowing players across the value chain to develop effective long-term strategies.
- Develop/modify business expansion plans by using substantial growth offering developed and emerging markets.

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Scrutinize in-depth Middle East & Africa market trends and outlook coupled with the factors driving the Middle East & Africa 3D stacking market, as well as those hindering it.

Enhance the decision-making process by understanding the strategies that underpin commercial interest with respect to client products, segmentation, pricing, and distribution.

The List of Companies - Middle East & Africa 3D Stacking Market

Samsung Electronics Co Ltd

Intel Corp

MediaTek Inc

Texas Instruments Inc

Amkor Technology Inc

ASE Technology Holding Co Ltd

Advanced Micro Devices Inc

3M Co

Globalfoundries Inc

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