

# Computer on Module Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2022-2027

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## Abstracts

The global computer on module market reached a value of US\$ 1.4 Billion in 2021. Looking forward, IMARC Group expects the market to reach US\$ 1.9 Billion by 2027, exhibiting a CAGR of 5.1% during 2022-2027. Keeping in mind the uncertainties of COVID-19, we are continuously tracking and evaluating the direct as well as the indirect influence of the pandemic on different end use industries. These insights are included in the report as a major market contributor.

A computer-on-module (CoM), or system-on-module (SoM), refers to a complete embedded computer designed on a single circuit board. It is built on a microprocessor and is equipped with random access memory (RAM), ethernet, input or output (I/O) controllers, flash memory and other components required for a fully functioning computer. The user can plug the central processing unit (CPU) into a small processor, or baseboard and perform various functions similar to that of a complex computer. This offers a consistent and cost-effective embedded platform for computing solutions and aids in minimizing the time required for manufacturing various products. Owing to this, it finds extensive applications in the industrial automation systems, medical electronics, transportation, communication and gaming industry.

Increasing automation across industries represents one of the key factors creating a positive outlook for the market. Furthermore, the widespread adoption of miniaturized devices is also providing a boost to the market growth. For instance, CoM systems are primarily used for manufacturing drones or unmanned aerial vehicles (UAVs) that are compact and can be navigated autonomously by the user. These systems also aid in faster product development and offer enhanced reliability, longevity and interconnectivity with other devices. Additionally, various technological advancements,

such as the integration of off-the-shelf CoM and application-specific carrier boards with the Internet of Things (IoT), are also contributing to the market growth. Other factors, including the adoption of CoMs for robotics, artificial intelligence, smart electronics, wireless connectivity and other electronic systems, along with increasing digitization, are projected to drive the market further.

#### Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global computer on module market, along with forecasts at the global, regional and country level from 2022-2027. Our report has categorized the market based on architecture type, standard and application.

#### Breakup by Architecture Type:

- ARM (Advanced RISC Machines) Architecture
- x86 Architecture
- Power Architecture
- Others

#### Breakup by Standard:

- COM Express
- SMARC (Smart Mobile Architecture)
- Qseven
- ETX (Embedded Technology Extended)
- Others

#### Breakup by Application:

- Industrial Automation
- Medical
- Transportation
- Gaming
- Communication
- Others

#### Breakup by Region:

- North America

United States  
Canada  
Asia Pacific  
China  
Japan  
India  
South Korea  
Australia  
Indonesia  
Others  
Europe  
Germany  
France  
United Kingdom  
Italy  
Spain  
Russia  
Others  
Latin America  
Brazil  
Mexico  
Others  
Middle East and Africa

#### Competitive Landscape:

The report has also analysed the competitive landscape of the market with some of the key players being AAEON Technology Inc., Advantech Co. Ltd., Axiomtek Co. Ltd., congatec AG, Digi International Inc., iWave Systems Technologies Pvt. Ltd., Kontron S&T AG (S&T AG), PHYTEC Embedded Pvt. Ltd., TechNexion, Toradex Systems (India) Pvt. Ltd. and Variscite.

#### Key Questions Answered in This Report:

How has the global computer on module market performed so far and how will it perform in the coming years?

What has been the impact of COVID-19 on the global computer on module market?

What are the key regional markets?

What is the breakup of the market based on the architecture type?

What is the breakup of the market based on the standard?

What is the breakup of the market based on the application?

What are the various stages in the value chain of the industry?

What are the key driving factors and challenges in the industry?

What is the structure of the global computer on module market and who are the key players?

What is the degree of competition in the industry?

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