

# **Vietnam Semiconductor Market By Component (Memory Devices, Logic Devices, Analog IC, MPU, MCU, Sensors, Discrete Power Devices, Others), By Node Size (28nm, 40nm, 65nm, 90nm, 120nm, 130nm), By Application (IT & Telecommunication, Defense and Military, Industrial, Consumer Electronics, Automotive, Others), By Type (Intrinsic Semiconductor and Extrinsic Semiconductor), By Material Type (Silicon, Germanium and Gallium Arsenide), By Region, Competition Forecast & Opportunities, 2018-2028**

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## **Abstracts**

Vietnam semiconductor market is expected to grow during the forecast period owing to major players choosing country as their production centre, favourable demographics, boosting foreign trade and investment, etc. For instance, Vietnam has also become a centre for the semiconductor industry as Samsung announced its plan to produce semiconductors from July 2023 with an additional investment of USD920 million. The country is also home to Intel's largest assembly and testing factory with an investment of USD1.5 billion.

Semiconductors are substances whose conductivities fall between those of conductors and those of non-conductors or insulators. In addition to pure materials like silicon or germanium, semiconductors can also contain compounds like gallium arsenide or cadmium selenide. Doping, a procedure that involves adding small amounts of impurities to clean semiconductors, results in significant changes in the material's

conductivity. Numerous goods employ semiconductors, including computers, smartphones, appliances, gaming equipment, and medical devices.

### Vietnam Semiconductor Market: Drivers

The Vietnam semiconductor market is considered a platform to support and promote the development of other industries, contributing to economic development in depth. This is an economic sector determined by the Government to have products in the list of nine national products and is an important way to convert scientific and technological achievements into high value-added commercial goods. The 4.0 industrial revolution has had a significant impact on the semiconductor sector, which is currently expanding rapidly in developing nations. Particularly praised by analysts and foreign businesses as an emerging market in Asia with significant growth potential is Vietnam. The increase in consumption demand is the direct cause of the strong growth of Vietnam's semiconductor factories, attracting investment from many foreign corporations in recent years.

Moreover, due to the policy and legal corridors that facilitate the investment and development of high-tech products, the semiconductor chip sector has become a top priority. Industrial parks and high-tech parks in Hanoi, Ho Chi Minh City, Da Nang, Thai Nguyen, Bac Ninh and Bac Giang with favourable geographical location and abundant human resources have become attractive destinations for investors. For instance, Intel Products Vietnam Company received a project adjustment investment certificate with an additional investment of USD 475 million to construct the most cutting-edge chip testing and assembling facility in the Ho Chi Minh City Hi-Tech Park, bringing the total investment capital of Intel in Vietnam to USD 1.5 billion. Thus, because of these considerations, the demand for semiconductors is anticipated to increase significantly during the future years.

### Vietnam Semiconductor Market: Trends

In keeping with the current worldwide trend of digital transformation, the Vietnam semiconductor market is growing quickly and has the potential to become a leading economic sector. In addition, favourable demographics with reasonably low labor costs and human resource expenses are the primary factors in the development of the semiconductor sector in Vietnam. A growing ecosystem of local entrepreneurs who are eager to learn from one another and improve their businesses, clear plans for the country's future development trajectories, an ambitious government that is opening the country to foreign trade and investment, and an adapting local legal system to

international standards are all strengths of Vietnam. In addition, the country's neutrality in the US-China trade war, as well as the Russia-Ukraine war, has also made it easier for investors to choose a place to produce and supply components for other economies.

### Vietnam Semiconductor Market: Challenges

The government should make sure that the local infrastructure can accommodate more businesses without clogging, streamline and simplify administrative procedures, increase transparency, and continue to update its legal framework to ensure fair competition. These are the main challenges Vietnam semiconductor market may have to deal with in developing the semiconductor industry.

Moreover, comparatively to the design and production of semiconductors, the area of the semiconductor industry that Vietnam is primarily engaged in is packaging and testing. The primary obstacle to Vietnam moving up another level in the value chain is really the high standards for manufacturing facilities as well as the highly skilled labor force. Vietnam also has everything it needs to start a manufacturing industry, but this will probably take some time and will also depend on the political system's ability to guide and support entrepreneurs as well as on the global macroeconomic factors that may have an impact on and reshape the global supply.

### Market Segments

Vietnam semiconductor market is segmented on the basis of component, node size, application, type, material type, region and competitive landscape. Based on component, the market is segmented into memory devices, logic devices, analog IC, MPU, MCU, sensors, discrete power devices and others. Based on node size, the market is segmented 28nm, 40nm, 65nm, 90nm, 120nm, 130nm. Based on application, the market is segmented into IT & Telecommunication, defense and military, industrial, consumer electronics, automotive and others. Based on type, the market is segmented into intrinsic semiconductor and extrinsic semiconductor. Based on material type, the market is segmented into silicon, germanium and gallium arsenide. Based on region, the market is segmented into, Northern Vietnam, Central Vietnam and Southern Vietnam.

### Market Players

Vietnam Semiconductor Market players include Hitachi Asia (Vietnam) Co., Ltd., Intel Products Vietnam Co. Ltd., Semiconductor Components Industries, LLC, Renesas

Design Vietnam Co., Ltd., Samsung Electronics Co. Ltd., SK Hynix Asia Pte. Ltd., STMicroelectronics N.V., Texas Instruments Incorporated., Broadcom Inc., Toshiba Asia Pacific Pte. Ltd.

#### Report Scope:

In this report, Vietnam semiconductor market has been segmented into following categories, in addition to the industry trends which have also been detailed below:

#### Vietnam Semiconductor Market, By Component:

Memory Devices

Logic Devices

Analog IC

MPU

MCU

Sensors

Discrete Power Devices

Others

#### Vietnam Semiconductor Market, By Node Size:

28nm

40nm

65nm

90nm

120nm

130nm

Vietnam Semiconductor Market, By Application:

IT & Telecommunication

Defense and Military

Industrial

Consumer Electronics

Automotive

Others

Vietnam Semiconductor Market, By Type:

Intrinsic Semiconductor

Extrinsic Semiconductor

Vietnam Semiconductor Market, By Material Type:

Silicon

Germanium

Gallium Arsenide

Vietnam Semiconductor Market, By Region:

Northern Vietnam

Central Vietnam

Southern Vietnam

## Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in Vietnam Semiconductor market.

## Available Customizations:

Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

## Company Information

Detailed analysis and profiling of additional market players (up to five).

## Contents

- 1. Product Overview
  - 1.1. Market Definition
  - 1.2. Scope of the Study
    - 1.2.1. Markets Covered
    - 1.2.2. Years Considered for Study
    - 1.2.3. Key Market Segmentations

## 2. RESEARCH METHODOLOGY

- 2.1. Baseline Methodology
- 2.2. Methodology Followed for Calculation of Market Size
- 2.3. Methodology Followed for Calculation of Market Shares
- 2.4. Methodology Followed for Forecasting

## 3. EXECUTIVE SUMMARY

## 4. IMPACT OF COVID-19 ON VIETNAM SEMICONDUCTOR MARKET

## 5. VOICE OF CUSTOMER

## 6. VIETNAM SEMICONDUCTOR MARKET OUTLOOK

- 6.1. Market Size & Forecast
  - 6.1.1. By Value
- 6.2. Market Share & Forecast
  - 6.2.1. By Component (Memory Devices, Logic Devices, Analog IC, MPU, MCU, Sensors, Discrete Power Devices, Others)
  - 6.2.2. By Node Size (28nm, 40nm, 65nm, 90nm, 120nm, 130nm)
  - 6.2.3. By Application (IT & Telecommunication, Defense and Military, Industrial, Consumer Electronics, Automotive, Others)
  - 6.2.4. By Type (Intrinsic Semiconductor and Extrinsic Semiconductor)
  - 6.2.5. By Material Type (Silicon, Germanium and Gallium Arsenide)
  - 6.2.6. By Region
- 6.3. By Company (2022)

## 6.4. Market Map

## 7. NORTHERN VIETNAM SEMICONDUCTOR MARKET OUTLOOK

### 7.1. Market Size & Forecast

#### 7.1.1. By Value

### 7.2. Market Share & Forecast

#### 7.2.1. By Component

#### 7.2.2. By Node Size

#### 7.2.3. By Application

#### 7.2.4. By Type

#### 7.2.5. By Material Type

## 8. CENTRAL VIETNAM SEMICONDUCTOR MARKET OUTLOOK

### 8.1. Market Size & Forecast

#### 8.1.1. By Value

### 8.2. Market Share & Forecast

#### 8.2.1. By Component

#### 8.2.2. By Node Size

#### 8.2.3. By Application

#### 8.2.4. By Type

#### 8.2.5. By Material Type

## 9. SOUTHERN VIETNAM SEMICONDUCTOR MARKET OUTLOOK

### 9.1. Market Size & Forecast

#### 9.1.1. By Value & Volume

### 9.2. Market Share & Forecast

#### 9.2.1. By Component

#### 9.2.2. By Node Size

#### 9.2.3. By Application

#### 9.2.4. By Type

#### 9.2.5. By Material Type

## 10. MARKET DYNAMICS

### 10.1. Drivers

### 10.2. Challenges



## **11. MARKET TRENDS AND DEVELOPMENTS**

## **12. POLICY & REGULATORY LANDSCAPE**

## **13. VIETNAM ECONOMIC PROFILE**

## **14. COMPETITIVE LANDSCAPE**

### **14.1. Competition Outlook**

### **14.2. Company Profiles**

#### **14.2.1. Hitachi Asia (Vietnam) Co., Ltd.**

##### **14.2.1.1. Company Overview**

##### **14.2.1.2. Product Portfolio**

##### **14.2.1.3. Financials (If Available)**

##### **14.2.1.4. Key Personals**

##### **14.2.1.5. Recent Developments/Updates**

#### **14.2.2. Intel Products Vietnam Co. Ltd.**

##### **14.2.2.1. Company Overview**

##### **14.2.2.2. Product Portfolio**

##### **14.2.2.3. Financials (If Available)**

##### **14.2.2.4. Key Personals**

##### **14.2.2.5. Recent Developments/Updates**

#### **14.2.3. Semiconductor Components Industries, LLC**

##### **14.2.3.1. Company Overview**

##### **14.2.3.2. Product Portfolio**

##### **14.2.3.3. Financials (If Available)**

##### **14.2.3.4. Key Personals**

##### **14.2.3.5. Recent Developments/Updates**

#### **14.2.4. Renesas Design Vietnam Co., Ltd.**

##### **14.2.4.1. Company Overview**

##### **14.2.4.2. Product Portfolio**

##### **14.2.4.3. Financials (If Available)**

##### **14.2.4.4. Key Personals**

##### **14.2.4.5. Recent Developments/Updates**

#### **14.2.5. SK Hynix Asia Pte. Ltd.**

- 14.2.5.1. Company Overview
- 14.2.5.2. Product Portfolio
- 14.2.5.3. Financials (If Available)
- 14.2.5.4. Key Personals
- 14.2.5.5. Recent Developments/Updates
- 14.2.6. STMicroelectronics N.V.
  - 14.2.6.1. Company Overview
  - 14.2.6.2. Product Portfolio
  - 14.2.6.3. Financials (If Available)
  - 14.2.6.4. Key Personals
  - 14.2.6.5. Recent Developments/Updates
- 14.2.7. SK HYNIX Inc.
  - 14.2.7.1. Company Overview
  - 14.2.7.2. Product Portfolio
  - 14.2.7.3. Financials (If Available)
  - 14.2.7.4. Key Personals
  - 14.2.7.5. Recent Developments/Updates
- 14.2.8. Texas Instruments Incorporated
  - 14.2.8.1. Company Overview
  - 14.2.8.2. Product Portfolio
  - 14.2.8.3. Financials (If Available)
  - 14.2.8.4. Key Personals
  - 14.2.8.5. Recent Developments/Updates
- 14.2.9. Broadcom Inc.
  - 14.2.9.1. Company Overview
  - 14.2.9.2. Product Portfolio
  - 14.2.9.3. Financials (If Available)
  - 14.2.9.4. Key Personals
  - 14.2.9.5. Recent Developments/Updates
- 14.2.10. Toshiba Asia Pacific Pte. Ltd.
  - 14.2.10.1. Company Overview
  - 14.2.10.2. Product Portfolio
  - 14.2.10.3. Financials (If Available)
  - 14.2.10.4. Key Personals
  - 14.2.10.5. Recent Developments/Updates

## **15. STRATEGIC RECOMMENDATIONS**

## 16. ABOUT US & DISCLAIMER

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