

Global Atomically Thin 2D Semiconductor Transistors Market Growth (Status and Outlook) 2026-2032

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Abstracts

The global Atomically Thin 2D Semiconductor Transistors market size is predicted to grow from US\$ 12.52 million in 2025 to US\$ 212 million in 2032; it is expected to grow at a CAGR of 44.8% from 2026 to 2032.

Atomically thin 2D semiconductor transistors are field-effect transistors and integrated devices in which atomically thin two-dimensional materials serve as the channel, sensing layer, or other critical functional layers. Typical material systems include transition-metal dichalcogenides such as MoS₂, WS₂ and WSe₂, graphene, h-BN, black phosphorus and other van der Waals materials. The technology leverages atomic-scale thickness, strong electrostatic gate control, dangling-bond-free surfaces and heterogeneous integration to modulate carrier transport or surface-charge response. This study focuses on 2D-FETs, GFETs, 2D semiconductor prototype chips, research-grade transistor chips and process services used in post-silicon CMOS scaling, monolithic 3D integration, low-power edge computing, molecular and biosensing, photodetection and flexible electronics. Key technical modules include high-quality 2D material growth and transfer, low-resistance contacts, gate dielectric integration, 300mm-compatible processing, low-temperature BEOL integration, device modeling and small-scale transistor array fabrication.

According to our research, atomically thin 2D semiconductor transistors should not be treated as a mature, revenue-heavy component market today. The current industry is better understood as an emerging technology stack formed by advanced logic research, early GFET commercialization, 2D material supply and engineering validation platforms. The strategic rationale is clear: as silicon transistor scaling approaches electrostatic, power and cost limits, atomically thin channel materials may provide better gate control and new integration options for post-silicon CMOS and monolithic 3D architectures.

However, the gap between laboratory demonstrations and high-volume manufacturing remains substantial. Contact resistance, gate dielectric integration, material uniformity, defect control, thermal budgets and 300mm process compatibility are still decisive bottlenecks. Therefore, this report adopts a narrow revenue scope that includes GFET devices, 2D-FET prototype chips, 2D material MPW and direct process services, rather than broadly counting all 2D materials or all advanced semiconductor revenue.

From a supply-side perspective, the global ecosystem is forming a clear three-layer structure. The first layer consists of advanced logic platforms that will determine whether 2D material transistors can be incorporated into future leading-edge logic roadmaps. The second layer is made up of companies that have begun to generate commercial products or services around GFETs, 2D material integration, MPW runs, and sensor applications. The third layer includes material and research-tool suppliers that provide wafers, samples, crystals, thin films, test substrates, and related prototyping inputs for universities, corporate R&D teams, and early-stage device development. This explains why the current revenue base remains small while the strategic importance is high. The key competitive variables are not only sales volume, but also material quality, integration compatibility, device repeatability and the ability to connect with CMOS design and process ecosystems.

From the demand side, near-term purchases are led by semiconductor R&D teams, universities, national laboratories, sensor developers and pilot-line users. Medium-term growth will likely come from GFET molecular and biosensors, low-power edge-AI prototypes, 2D material MPW services and BEOL-compatible heterogeneous integration. China's publicly disclosed 2D semiconductor demonstration line and 2029 mass-production target indicate that regional industrial policy is beginning to move from academic validation toward process platforms and prototype chips. Nevertheless, the market before 2030 should still be modeled conservatively. If 300mm integration, low-temperature deposition, gate stack engineering and low-resistance contacts progress faster than expected, the market could move from research-grade demand to engineering-validation and small-batch application demand; otherwise, it will remain a specialized R&D and sensing niche for longer.

This report presents a comprehensive overview, market shares, and growth opportunities of Atomically Thin 2D Semiconductor Transistors market by product type, application, key players and key regions and countries.

Segmentation by Type:

Advanced 2D-FET R&D / Pilot Devices

GFET Chips and Sensor Devices

2D Material Device MPW / Prototyping Services

2D Semiconductor Prototype ICs

Research-grade Test Structures and Substrates

Other / Unclassified Product Forms

Segmentation by Channel Material:

TMD-based 2D Transistors

Graphene Field-Effect Transistors

h-BN / Insulator-enabled 2D Devices

Black Phosphorus and Other 2D Semiconductors

Hybrid / Other Low-dimensional Devices

Segmentation by Device Architecture:

Planar 2D-FET

Top-gated / Dual-gated 2D-FET

GAA 2D-FET

2D-CFET / Stacked 2D Devices

GFET Sensor Device

Other Experimental Architectures

Segmentation by Application:

Advanced Logic Scaling

Monolithic 3D Integration

Molecular and Biosensing

Optoelectronics and Photonics

This report also splits the market by region:

United States

China

Europe

Other regions

Japan

South Korea

Southeast Asia

Rest of world

The report also presents the market competition landscape and a corresponding detailed analysis of the major players in the market. The key players covered in this report:

Graphenea S.A.

Paragraf Limited

AMO GmbH

VTT Technical Research Centre of Finland Ltd

CDimension

Melexis NV

Grolltex, Inc.

Archer Materials Limited

Grapheal SAS

LayerLogic AB

Yuanjiwei Technology (Shanghai) Co., Ltd.

imec

Commissariat à l'énergie atomique et aux énergies alternatives (CEA)

IHP – Leibniz Institute for High Performance Microelectronics

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered

2 EXECUTIVE SUMMARY

2.1 World Market Overview

- 2.1.1 Global Atomically Thin 2D Semiconductor Transistors Market Size 2026-2032
- 2.1.2 Atomically Thin 2D Semiconductor Transistors Market Size CAGR by Region

2.2 Atomically Thin 2D Semiconductor Transistors Segment by Type

- 2.2.1 Advanced 2D-FET R&D / Pilot Devices
- 2.2.2 GFET Chips and Sensor Devices
- 2.2.3 2D Material Device MPW / Prototyping Services
- 2.2.4 2D Semiconductor Prototype ICs
- 2.2.5 Research-grade Test Structures and Substrates
- 2.2.6 Other / Unclassified Product Forms
- 2.2.7 Atomically Thin 2D Semiconductor Transistors Market Size by Type

2.2.7.1 Global Atomically Thin 2D Semiconductor Transistors Market Size Market Share by Type (2026-2032)

2.2.7.2 Global Atomically Thin 2D Semiconductor Transistors Market Size Growth Rate by Type (2026-2032)

2.3 Atomically Thin 2D Semiconductor Transistors Segment by Channel Material

- 2.3.1 TMD-based 2D Transistors
- 2.3.2 Graphene Field-Effect Transistors
- 2.3.3 h-BN / Insulator-enabled 2D Devices
- 2.3.4 Black Phosphorus and Other 2D Semiconductors
- 2.3.5 Hybrid / Other Low-dimensional Devices

2.3.6 Atomically Thin 2D Semiconductor Transistors Market Size by Channel Material

2.3.6.1 Global Atomically Thin 2D Semiconductor Transistors Market Size Market Share by Channel Material (2026-2032)

2.3.6.2 Global Atomically Thin 2D Semiconductor Transistors Market Size Growth

Rate by Channel Material (2026-2032)

2.4 Atomically Thin 2D Semiconductor Transistors Segment by Device Architecture

2.4.1 Planar 2D-FET

2.4.2 Top-gated / Dual-gated 2D-FET

2.4.3 GAA 2D-FET

2.4.4 2D-CFET / Stacked 2D Devices

2.4.5 GFET Sensor Device

2.4.6 Other Experimental Architectures

2.4.7 Atomically Thin 2D Semiconductor Transistors Market Size by Device Architecture

2.4.7.1 Global Atomically Thin 2D Semiconductor Transistors Market Size Market Share by Device Architecture (2026-2032)

2.4.7.2 Global Atomically Thin 2D Semiconductor Transistors Market Size Growth Rate by Device Architecture (2026-2032)

2.5 Atomically Thin 2D Semiconductor Transistors Segment by Application

2.5.1 Advanced Logic Scaling

2.5.2 Monolithic 3D Integration

2.5.3 Molecular and Biosensing

2.5.4 Optoelectronics and Photonics

2.5.5 Atomically Thin 2D Semiconductor Transistors Market Size by Application (2026-2032)

2.5.5.1 Global Atomically Thin 2D Semiconductor Transistors Market Size Market Share by Application (2026-2032)

2.5.5.2 Global Atomically Thin 2D Semiconductor Transistors Market Size Growth Rate by Application (2026-2032)

3 ATOMICALLY THIN 2D SEMICONDUCTOR TRANSISTORS KEY PLAYERS

3.1 Date of Key Players Enter into Atomically Thin 2D Semiconductor Transistors

3.2 Key Players Atomically Thin 2D Semiconductor Transistors Product Offered

3.3 Key Players Atomically Thin 2D Semiconductor Transistors Funding/Investment Analysis

3.4 Funding/Investment

3.4.1 Funding/Investment by Regions

3.4.2 Funding/Investment by End-Industry

3.5 Key Players Atomically Thin 2D Semiconductor Transistors Valuation & Market Capitalization

3.6 Key Players Mergers & Acquisitions, Expansion Plans

3.7 Market Ranking

3.8 New Product/Technology Launches

3.9 Partnerships, Agreements, and Collaborations

3.10 Mergers and Acquisitions

4 ATOMICALLY THIN 2D SEMICONDUCTOR TRANSISTORS BY REGIONS

4.1 Atomically Thin 2D Semiconductor Transistors Market Size by Regions (2026-2032)

4.2 United States Atomically Thin 2D Semiconductor Transistors Market Size Growth (2026-2032)

4.3 China Atomically Thin 2D Semiconductor Transistors Market Size Growth (2026-2032)

4.4 Europe Atomically Thin 2D Semiconductor Transistors Market Size Growth (2026-2032)

4.5 Rest of World Atomically Thin 2D Semiconductor Transistors Market Size Growth (2026-2032)

5 UNITED STATES

5.1 United States Atomically Thin 2D Semiconductor Transistors Market Size by Type (2026-2032)

5.2 United States Atomically Thin 2D Semiconductor Transistors Market Size by Application (2026-2032)

6 EUROPE

6.1 Europe Atomically Thin 2D Semiconductor Transistors Market Size by Type (2026-2032)

6.2 Europe Atomically Thin 2D Semiconductor Transistors Market Size by Application (2026-2032)

7 CHINA

7.1 China Atomically Thin 2D Semiconductor Transistors Market Size by Type (2026-2032)

7.2 China Atomically Thin 2D Semiconductor Transistors Market Size by Application (2026-2032)

8 REST OF WORLD

8.1 Rest of World Atomically Thin 2D Semiconductor Transistors Market Size by Type (2026-2032)

8.2 Rest of World Atomically Thin 2D Semiconductor Transistors Market Size by Application (2026-2032)

8.3 Japan

8.4 South Korea

8.5 Southeast Asia

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 KEY INVESTORS IN ATOMICALLY THIN 2D SEMICONDUCTOR TRANSISTORS

10.1 Company A

10.1.1 Company A Company Details

10.1.2 Company Description

10.1.3 Companies Invested by Company A

10.1.4 Company A Key Development and Market Layout

10.2 Company B

10.2.1 Company B Company Details

10.2.2 Company Description

10.2.3 Companies Invested by Company B

10.2.4 Company B Key Development and Market Layout

10.3 Company C

10.3.1 Company C Company Details

10.3.2 Company Description

10.3.3 Companies Invested by Company C

10.3.4 Company C Key Development and Market Layout

10.4 Company D

10.5 ??

11 KEY PLAYERS ANALYSIS

11.1 Graphenea S.A.

11.1.1 Graphenea S.A. Company Details

11.1.2 Graphenea S.A. Atomically Thin 2D Semiconductor Transistors Product Offered

11.1.3 Graphenea S.A. Atomically Thin 2D Semiconductor Transistors Market Size (2025 VS 2031)

11.1.4 Graphenea S.A. Main Business Overview

11.1.5 Graphenea S.A. News

11.2 Paragraf Limited

11.2.1 Paragraf Limited Company Details

11.2.2 Paragraf Limited Atomically Thin 2D Semiconductor Transistors Product Offered

11.2.3 Paragraf Limited Atomically Thin 2D Semiconductor Transistors Market Size (2025 VS 2031)

11.2.4 Paragraf Limited Main Business Overview

11.2.5 Paragraf Limited News

11.3 AMO GmbH

11.3.1 AMO GmbH Company Details

11.3.2 AMO GmbH Atomically Thin 2D Semiconductor Transistors Product Offered

11.3.3 AMO GmbH Atomically Thin 2D Semiconductor Transistors Market Size (2025 VS 2031)

11.3.4 AMO GmbH Main Business Overview

11.3.5 AMO GmbH News

11.4 VTT Technical Research Centre of Finland Ltd

11.4.1 VTT Technical Research Centre of Finland Ltd Company Details

11.4.2 VTT Technical Research Centre of Finland Ltd Atomically Thin 2D Semiconductor Transistors Product Offered

11.4.3 VTT Technical Research Centre of Finland Ltd Atomically Thin 2D Semiconductor Transistors Market Size (2025 VS 2031)

11.4.4 VTT Technical Research Centre of Finland Ltd Main Business Overview

11.4.5 VTT Technical Research Centre of Finland Ltd News

11.5 CDimension

11.5.1 CDimension Company Details

11.5.2 CDimension Atomically Thin 2D Semiconductor Transistors Product Offered

11.5.3 CDimension Atomically Thin 2D Semiconductor Transistors Market Size (2025 VS 2031)

11.5.4 CDimension Main Business Overview

11.5.5 CDimension News

11.6 Melexis NV

11.6.1 Melexis NV Company Details

11.6.2 Melexis NV Atomically Thin 2D Semiconductor Transistors Product Offered

11.6.3 Melexis NV Atomically Thin 2D Semiconductor Transistors Market Size (2025 VS 2031)

- 11.6.4 Melexis NV Main Business Overview
- 11.6.5 Melexis NV News
- 11.7 Grolltex, Inc.
 - 11.7.1 Grolltex, Inc. Company Details
 - 11.7.2 Grolltex, Inc. Atomically Thin 2D Semiconductor Transistors Product Offered
 - 11.7.3 Grolltex, Inc. Atomically Thin 2D Semiconductor Transistors Market Size (2025 VS 2031)
 - 11.7.4 Grolltex, Inc. Main Business Overview
 - 11.7.5 Grolltex, Inc. News
- 11.8 Archer Materials Limited
 - 11.8.1 Archer Materials Limited Company Details
 - 11.8.2 Archer Materials Limited Atomically Thin 2D Semiconductor Transistors Product Offered
 - 11.8.3 Archer Materials Limited Atomically Thin 2D Semiconductor Transistors Market Size (2025 VS 2031)
 - 11.8.4 Archer Materials Limited Main Business Overview
 - 11.8.5 Archer Materials Limited News
- 11.9 Grapheal SAS
 - 11.9.1 Grapheal SAS Company Details
 - 11.9.2 Grapheal SAS Atomically Thin 2D Semiconductor Transistors Product Offered
 - 11.9.3 Grapheal SAS Atomically Thin 2D Semiconductor Transistors Market Size (2025 VS 2031)
 - 11.9.4 Grapheal SAS Main Business Overview
 - 11.9.5 Grapheal SAS News
- 11.10 LayerLogic AB
 - 11.10.1 LayerLogic AB Company Details
 - 11.10.2 LayerLogic AB Atomically Thin 2D Semiconductor Transistors Product Offered
 - 11.10.3 LayerLogic AB Atomically Thin 2D Semiconductor Transistors Market Size (2025 VS 2031)
 - 11.10.4 LayerLogic AB Main Business Overview
 - 11.10.5 LayerLogic AB News
- 11.11 Yuanjiwei Technology (Shanghai) Co., Ltd.
- 11.12 imec
- 11.13 Commissariat ? l'nergie atomique et aux ?nergies alternatives (CEA)
- 11.14 IHP ? Leibniz Institute for High Performance Microelectronics

12 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Atomically Thin 2D Semiconductor Transistors Market Size CAGR by Region (2026-2032) (\$ millions)

Table 2. Major Players of Advanced 2D-FET R&D / Pilot Devices

Table 3. Major Players of GFET Chips and Sensor Devices

Table 4. Major Players of 2D Material Device MPW / Prototyping Services

Table 5. Major Players of 2D Semiconductor Prototype ICs

Table 6. Major Players of Research-grade Test Structures and Substrates

Table 7. Major Players of Other / Unclassified Product Forms

Table 8. Global Market Size by Type (2026-2032) (\$ millions)

Table 9. Global Atomically Thin 2D Semiconductor Transistors Market Size Market Share by Type (2026-2032)

Table 10. Major Players of TMD-based 2D Transistors

Table 11. Major Players of Graphene Field-Effect Transistors

Table 12. Major Players of h-BN / Insulator-enabled 2D Devices

Table 13. Major Players of Black Phosphorus and Other 2D Semiconductors

Table 14. Major Players of Hybrid / Other Low-dimensional Devices

Table 15. Global Market Size by Channel Material (2026-2032) (\$ millions)

Table 16. Global Atomically Thin 2D Semiconductor Transistors Market Size Market Share by Channel Material (2026-2032)

Table 17. Major Players of Planar 2D-FET

Table 18. Major Players of Top-gated / Dual-gated 2D-FET

Table 19. Major Players of GAA 2D-FET

Table 20. Major Players of 2D-CFET / Stacked 2D Devices

Table 21. Major Players of GFET Sensor Device

Table 22. Major Players of Other Experimental Architectures

Table 23. Global Market Size by Device Architecture (2026-2032) (\$ millions)

Table 24. Global Atomically Thin 2D Semiconductor Transistors Market Size Market Share by Device Architecture (2026-2032)

Table 25. Global Atomically Thin 2D Semiconductor Transistors Market Size by Application (2026-2032) (\$ millions)

Table 26. Global Atomically Thin 2D Semiconductor Transistors Market Size Market Share by Application (2026-2032)

Table 27. Date of Global Key Players Enter into Atomically Thin 2D Semiconductor Transistors Market

Table 28. Global Key Players Atomically Thin 2D Semiconductor Transistors Product

Offered

Table 29. Key Players Atomically Thin 2D Semiconductor Transistors

Funding/Investment (Million USD)

Table 30. Funding/Investment by Regions

Table 31. Funding/Investment by End-Industry

Table 32. Key Players Atomically Thin 2D Semiconductor Transistors Valuation & Market Capitalization (Million USD)

Table 33. Key Players Mergers & Acquisitions, Expansion Plans

Table 34. Atomically Thin 2D Semiconductor Transistors New Product/Technology Launches

Table 35. Atomically Thin 2D Semiconductor Transistors Industry Partnerships, Agreements, and Collaborations

Table 36. Atomically Thin 2D Semiconductor Transistors Industry Mergers and Acquisitions

Table 37. Global Atomically Thin 2D Semiconductor Transistors Market Size by Regions 2026-2032 (\$ millions)

Table 38. Global Atomically Thin 2D Semiconductor Transistors Market Size Market Share by Regions 2026-2032

Table 39. United States Atomically Thin 2D Semiconductor Transistors Market Size by Type (2026-2032) (\$ millions)

Table 40. United States Atomically Thin 2D Semiconductor Transistors Market Size Market Share by Type (2026-2032)

Table 41. United States Atomically Thin 2D Semiconductor Transistors Market Size by Application (2026-2032) (\$ millions)

Table 42. United States Atomically Thin 2D Semiconductor Transistors Market Size Market Share by Application (2026-2032)

Table 43. Europe Atomically Thin 2D Semiconductor Transistors Market Size by Type (2026-2032) (\$ millions)

Table 44. Europe Atomically Thin 2D Semiconductor Transistors Market Size Market Share by Type (2026-2032)

Table 45. Europe Atomically Thin 2D Semiconductor Transistors Market Size by Application (2026-2032) (\$ millions)

Table 46. Europe Atomically Thin 2D Semiconductor Transistors Market Size Market Share by Application (2026-2032)

Table 47. China Atomically Thin 2D Semiconductor Transistors Market Size by Type (2026-2032) (\$ millions)

Table 48. China Atomically Thin 2D Semiconductor Transistors Market Size Market Share by Type (2026-2032)

Table 49. China Atomically Thin 2D Semiconductor Transistors Market Size by

Application (2026-2032) (\$ millions)

Table 50. China Atomically Thin 2D Semiconductor Transistors Market Size Market Share by Application (2026-2032)

Table 51. Rest of World Atomically Thin 2D Semiconductor Transistors Market Size by Type (2026-2032) (\$ millions)

Table 52. Rest of World Atomically Thin 2D Semiconductor Transistors Market Size Market Share by Type (2026-2032)

Table 53. Rest of World Atomically Thin 2D Semiconductor Transistors Market Size by Application (2026-2032) (\$ millions)

Table 54. Rest of World Atomically Thin 2D Semiconductor Transistors Market Size Market Share by Application (2026-2032)

Table 55. Key Market Drivers & Growth Opportunities of Atomically Thin 2D Semiconductor Transistors

Table 56. Key Market Challenges & Risks of Atomically Thin 2D Semiconductor Transistors

Table 57. Key Industry Trends of Atomically Thin 2D Semiconductor Transistors

Table 58. Company A Company Details

Table 59. Companies Invested by Company A

Table 60. Company A Key Development and Market Layout

Table 61. Company B Company Details

Table 62. Companies Invested by Company B

Table 63. Company B Key Development and Market Layout

Table 64. Company C Company Details

Table 65. Companies Invested by Company C

Table 66. Company C Key Development and Market Layout

Table 67. Graphenea S.A. Basic Information, Head Office, Major Market Areas and Its Competitors

Table 68. Graphenea S.A. Atomically Thin 2D Semiconductor Transistors Market Size (2025 VS 2031)

Table 69. Paragraf Limited Basic Information, Head Office, Major Market Areas and Its Competitors

Table 70. Paragraf Limited Atomically Thin 2D Semiconductor Transistors Market Size (2025 VS 2031)

Table 71. AMO GmbH Basic Information, Head Office, Major Market Areas and Its Competitors

Table 72. AMO GmbH Atomically Thin 2D Semiconductor Transistors Market Size (2025 VS 2031)

Table 73. VTT Technical Research Centre of Finland Ltd Basic Information, Head Office, Major Market Areas and Its Competitors

Table 74. VTT Technical Research Centre of Finland Ltd Atomically Thin 2D Semiconductor Transistors Market Size (2025 VS 2031)

Table 75. CDimension Basic Information, Head Office, Major Market Areas and Its Competitors

Table 76. CDimension Atomically Thin 2D Semiconductor Transistors Market Size (2025 VS 2031)

Table 77. Melexis NV Basic Information, Head Office, Major Market Areas and Its Competitors

Table 78. Melexis NV Atomically Thin 2D Semiconductor Transistors Market Size (2025 VS 2031)

Table 79. Grolltex, Inc. Basic Information, Head Office, Major Market Areas and Its Competitors

Table 80. Grolltex, Inc. Atomically Thin 2D Semiconductor Transistors Market Size (2025 VS 2031)

Table 81. Archer Materials Limited Basic Information, Head Office, Major Market Areas and Its Competitors

Table 82. Archer Materials Limited Atomically Thin 2D Semiconductor Transistors Market Size (2025 VS 2031)

Table 83. Grapheal SAS Basic Information, Head Office, Major Market Areas and Its Competitors

Table 84. Grapheal SAS Atomically Thin 2D Semiconductor Transistors Market Size (2025 VS 2031)

Table 85. LayerLogic AB Basic Information, Head Office, Major Market Areas and Its Competitors

Table 86. LayerLogic AB Atomically Thin 2D Semiconductor Transistors Market Size (2025 VS 2031)

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Atomically Thin 2D Semiconductor Transistors
- Figure 2. Atomically Thin 2D Semiconductor Transistors Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Atomically Thin 2D Semiconductor Transistors Market Size Growth Rate 2026-2032 (\$ millions)
- Figure 7. Atomically Thin 2D Semiconductor Transistors Market Size by Region (2025 & 2032) (\$ millions)
- Figure 8. Global Atomically Thin 2D Semiconductor Transistors Market Size Market Share by Type (2026-2032)
- Figure 9. Global Advanced 2D-FET R&D / Pilot Devices Market Size Growth Rate
- Figure 10. Global GFET Chips and Sensor Devices Market Size Growth Rate
- Figure 11. Global Atomically Thin 2D Semiconductor Transistors Market Size Market Share by Channel Material (2026-2032)
- Figure 12. Global TMD-based 2D Transistors Market Size Growth Rate
- Figure 13. Global Graphene Field-Effect Transistors Market Size Growth Rate
- Figure 14. Global Atomically Thin 2D Semiconductor Transistors Market Size Market Share by Device Architecture (2026-2032)
- Figure 15. Global Planar 2D-FET Market Size Growth Rate
- Figure 16. Global Top-gated / Dual-gated 2D-FET Market Size Growth Rate
- Figure 17. Atomically Thin 2D Semiconductor Transistors in Advanced Logic Scaling
- Figure 18. Global Atomically Thin 2D Semiconductor Transistors Market: Advanced Logic Scaling (2026-2032) (\$ millions)
- Figure 19. Atomically Thin 2D Semiconductor Transistors in Monolithic 3D Integration
- Figure 20. Global Atomically Thin 2D Semiconductor Transistors Market: Monolithic 3D Integration (2026-2032) (\$ millions)
- Figure 21. Atomically Thin 2D Semiconductor Transistors in Molecular and Biosensing
- Figure 22. Global Atomically Thin 2D Semiconductor Transistors Market: Molecular and Biosensing (2026-2032) (\$ millions)
- Figure 23. Atomically Thin 2D Semiconductor Transistors in Optoelectronics and Photonics
- Figure 24. Global Atomically Thin 2D Semiconductor Transistors Market: Optoelectronics and Photonics (2026-2032) (\$ millions)
- Figure 25. Global Atomically Thin 2D Semiconductor Transistors Market Size Market

Share by Application (2026-2032)

Figure 26. Global Atomically Thin 2D Semiconductor Transistors Market Size in Advanced Logic Scaling Growth Rate

Figure 27. Global Atomically Thin 2D Semiconductor Transistors Market Size in Monolithic 3D Integration Growth Rate

Figure 28. Funding/Investment

Figure 29. Global Atomically Thin 2D Semiconductor Transistors Market Size Market Share by Regions 2026-2032

Figure 30. United States Atomically Thin 2D Semiconductor Transistors Market Size 2026-2032 (\$ millions)

Figure 31. China Atomically Thin 2D Semiconductor Transistors Market Size 2026-2032 (\$ millions)

Figure 32. Europe Atomically Thin 2D Semiconductor Transistors Market Size 2026-2032 (\$ millions)

Figure 33. Rest of World Atomically Thin 2D Semiconductor Transistors Market Size 2026-2032 (\$ millions)

Figure 34. United States Atomically Thin 2D Semiconductor Transistors Consumption Market Share by Type in 2030

Figure 35. United States Atomically Thin 2D Semiconductor Transistors Market Size Market Share by Application in 2030

Figure 36. Europe Atomically Thin 2D Semiconductor Transistors Consumption Market Share by Type in 2030

Figure 37. Europe Atomically Thin 2D Semiconductor Transistors Market Size Market Share by Application in 2030

Figure 38. China Atomically Thin 2D Semiconductor Transistors Consumption Market Share by Type in 2030

Figure 39. China Atomically Thin 2D Semiconductor Transistors Market Size Market Share by Application in 2030

Figure 40. Rest of World Atomically Thin 2D Semiconductor Transistors Consumption Market Share by Type in 2030

Figure 41. Rest of World Atomically Thin 2D Semiconductor Transistors Market Size Market Share by Application in 2030

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