

# Global Atomically Thin 2D Semiconductor Transistors Market 2026 by Company, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global Atomically Thin 2D Semiconductor Transistors market size was valued at US\$ 13.17 million in 2025 and is forecast to a readjusted size of US\$ 200 million by 2032 with a CAGR of 42.2% during review period.

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 MoS<sub>2</sub>, WS<sub>2</sub> and WSe<sub>2</sub>, 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.

The Atomically Thin 2D Semiconductor Transistors market report provides a detailed analysis of global market size, regional and country-level market size, segmentation market growth, market share, competitive Landscape, sales analysis, impact of

domestic and global market players, value chain optimization, trade regulations, recent developments, opportunities analysis, strategic market growth analysis, product launches, area marketplace expanding, and technological innovations.

### Market segmentation

Atomically Thin 2D Semiconductor Transistors market is split by Type and by Application. For the period 2026-2032, the growth among segments provide accurate calculations and forecasts for revenue by Type and by Application. This analysis can help you expand your business by targeting qualified niche markets.

### Market segment 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

### Market segment 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

## Market segment 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

## Market segment by Application

Advanced Logic Scaling

Monolithic 3D Integration

Molecular and Biosensing

Optoelectronics and Photonics

## Market segment by players, this report covers

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

Market segment by regions, regional analysis covers

North America

Europe

Asia-Pacific (China, Japan, South Korea, Rest of Asia)

South America

Middle East & Africa

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