

# Global Mobile Phones Inertial Measurement Unit (IMU) Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Mobile Phones Inertial Measurement Unit (IMU) market size is expected to reach \$ 649 million by 2032, rising at a market growth of 0.9% CAGR during the forecast period (2026-2032).

Mobile Phones Inertial Measurement Unit (IMU) is a highly miniaturized, ultra-low-power and high-integration core sensing module customized for smartphone hardware design. It integrates MEMS triaxial gyroscopes, MEMS triaxial accelerometers (and magnetometers in mainstream models) on a single chip, with built-in high-precision motion data calibration, noise reduction and preprocessing algorithms. It can real-time capture and output the smartphone's spatial motion state, including three-axis angular velocity, three-axis linear acceleration and spatial magnetic field data, providing core sensing support for mobile phones to realize motion sensing, screen control, spatial positioning and interactive experience optimization. Mobile phone IMU chips are priced tiered by product positioning, with price gaps matching different smartphone grades. Entry-level 6-axis models for budget phones, only supporting screen rotation and basic step counting, cost \$1.2-2.5 each. Mainstream 6-axis models (e.g., Bosch BMI270, TDK ICM42605), the standard configuration for mid-to-high-end phones with EIS electronic image stabilization and wrist-raise wake-up functions, are priced at \$2-5. High-end 9-axis models integrated with magnetometers, tailored for flagship phones to support AR/VR interaction, high-precision navigation and 3D gesture control, cost \$4.5-9 each, especially for custom versions of Apple and Samsung.

The industrial chain is divided into three tiers, highly adapted to the miniaturization and low-power demands of mobile phones. Upstream covers core raw materials such as MEMS silicon wafers, SOI substrates and ASIC circuits, with TSMC, GlobalFoundries and Bosch as key suppliers, accounting for about 30% of the total cost. Midstream

focuses on chip manufacturer, where the core barriers lie in ultra-miniature MEMS processes and low-power calibration algorithms. Downstream includes smartphone manufacturers like Apple, Samsung and Xiaomi, which integrate IMU chips with other sensors for assembly. The interactive upgrade of flagship terminal phones drives the technological iteration of IMU chips.

This report studies the global Mobile Phones Inertial Measurement Unit (IMU) production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Mobile Phones Inertial Measurement Unit (IMU) and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Mobile Phones Inertial Measurement Unit (IMU) that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Mobile Phones Inertial Measurement Unit (IMU) total production and demand, 2021-2032, (K Units)

Global Mobile Phones Inertial Measurement Unit (IMU) total production value, 2021-2032, (USD Million)

Global Mobile Phones Inertial Measurement Unit (IMU) production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Mobile Phones Inertial Measurement Unit (IMU) consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Mobile Phones Inertial Measurement Unit (IMU) domestic production, consumption, key domestic manufacturers and share

Global Mobile Phones Inertial Measurement Unit (IMU) production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Mobile Phones Inertial Measurement Unit (IMU) production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Mobile Phones Inertial Measurement Unit (IMU) production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Mobile Phones Inertial Measurement Unit (IMU) market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Bosch, TDK,

STMicroelectronics, Murata, Panasonic, Senodia, QST Corporation, Silan Microelectronics, Memsic, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Mobile Phones Inertial Measurement Unit (IMU) market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Mobile Phones Inertial Measurement Unit (IMU) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Mobile Phones Inertial Measurement Unit (IMU) Market, Segmentation by Type:

4-axis

6-axis

Others

Global Mobile Phones Inertial Measurement Unit (IMU) Market, Segmentation by Inertial Sensor Composition:

MEMS-IMU

Non-MEMS-IMU

Global Mobile Phones Inertial Measurement Unit (IMU) Market, Segmentation by Manufacturing Process:

CMOS IMU

SOC IMU

Others

Global Mobile Phones Inertial Measurement Unit (IMU) Market, Segmentation by Application:

Entry-level Phones

Mid-range Phones

High-end Phones

Companies Profiled:

Bosch

TDK

STMicroelectronics

Murata

Panasonic

Senodia

QST Corporation

Silan Microelectronics

Memsic

**Key Questions Answered:**

1. How big is the global Mobile Phones Inertial Measurement Unit (IMU) market?
2. What is the demand of the global Mobile Phones Inertial Measurement Unit (IMU) market?
3. What is the year over year growth of the global Mobile Phones Inertial Measurement Unit (IMU) market?
4. What is the production and production value of the global Mobile Phones Inertial Measurement Unit (IMU) market?
5. Who are the key producers in the global Mobile Phones Inertial Measurement Unit (IMU) market?
6. What are the growth factors driving the market demand?

## Contents

### 1 SUPPLY SUMMARY

- 1.1 Mobile Phones Inertial Measurement Unit (IMU) Introduction
- 1.2 World Mobile Phones Inertial Measurement Unit (IMU) Supply & Forecast
  - 1.2.1 World Mobile Phones Inertial Measurement Unit (IMU) Production Value (2021 & 2025 & 2032)
  - 1.2.2 World Mobile Phones Inertial Measurement Unit (IMU) Production (2021-2032)
  - 1.2.3 World Mobile Phones Inertial Measurement Unit (IMU) Pricing Trends (2021-2032)
- 1.3 World Mobile Phones Inertial Measurement Unit (IMU) Production by Region (Based on Production Site)
  - 1.3.1 World Mobile Phones Inertial Measurement Unit (IMU) Production Value by Region (2021-2032)
  - 1.3.2 World Mobile Phones Inertial Measurement Unit (IMU) Production by Region (2021-2032)
  - 1.3.3 World Mobile Phones Inertial Measurement Unit (IMU) Average Price by Region (2021-2032)
  - 1.3.4 North America Mobile Phones Inertial Measurement Unit (IMU) Production (2021-2032)
  - 1.3.5 Europe Mobile Phones Inertial Measurement Unit (IMU) Production (2021-2032)
  - 1.3.6 China Mobile Phones Inertial Measurement Unit (IMU) Production (2021-2032)
  - 1.3.7 Japan Mobile Phones Inertial Measurement Unit (IMU) Production (2021-2032)
  - 1.3.8 South Korea Mobile Phones Inertial Measurement Unit (IMU) Production (2021-2032)
  - 1.3.9 Southeast Asia Mobile Phones Inertial Measurement Unit (IMU) Production (2021-2032)
  - 1.3.10 China Taiwan Mobile Phones Inertial Measurement Unit (IMU) Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
  - 1.4.1 Mobile Phones Inertial Measurement Unit (IMU) Market Drivers
  - 1.4.2 Factors Affecting Demand
  - 1.4.3 Mobile Phones Inertial Measurement Unit (IMU) Major Market Trends

### 2 DEMAND SUMMARY

- 2.1 World Mobile Phones Inertial Measurement Unit (IMU) Demand (2021-2032)
- 2.2 World Mobile Phones Inertial Measurement Unit (IMU) Consumption by Region

2.2.1 World Mobile Phones Inertial Measurement Unit (IMU) Consumption by Region (2021-2026)

2.2.2 World Mobile Phones Inertial Measurement Unit (IMU) Consumption Forecast by Region (2027-2032)

2.3 United States Mobile Phones Inertial Measurement Unit (IMU) Consumption (2021-2032)

2.4 China Mobile Phones Inertial Measurement Unit (IMU) Consumption (2021-2032)

2.5 Europe Mobile Phones Inertial Measurement Unit (IMU) Consumption (2021-2032)

2.6 Japan Mobile Phones Inertial Measurement Unit (IMU) Consumption (2021-2032)

2.7 South Korea Mobile Phones Inertial Measurement Unit (IMU) Consumption (2021-2032)

2.8 ASEAN Mobile Phones Inertial Measurement Unit (IMU) Consumption (2021-2032)

2.9 India Mobile Phones Inertial Measurement Unit (IMU) Consumption (2021-2032)

### **3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS**

3.1 World Mobile Phones Inertial Measurement Unit (IMU) Production Value by Manufacturer (2021-2026)

3.2 World Mobile Phones Inertial Measurement Unit (IMU) Production by Manufacturer (2021-2026)

3.3 World Mobile Phones Inertial Measurement Unit (IMU) Average Price by Manufacturer (2021-2026)

3.4 Mobile Phones Inertial Measurement Unit (IMU) Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global Mobile Phones Inertial Measurement Unit (IMU) Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for Mobile Phones Inertial Measurement Unit (IMU) in 2025

3.5.3 Global Concentration Ratios (CR8) for Mobile Phones Inertial Measurement Unit (IMU) in 2025

3.6 Mobile Phones Inertial Measurement Unit (IMU) Market: Overall Company Footprint Analysis

3.6.1 Mobile Phones Inertial Measurement Unit (IMU) Market: Region Footprint

3.6.2 Mobile Phones Inertial Measurement Unit (IMU) Market: Company Product Type Footprint

3.6.3 Mobile Phones Inertial Measurement Unit (IMU) Market: Company Product Application Footprint

3.7 Competitive Environment

3.7.1 Historical Structure of the Industry

- 3.7.2 Barriers of Market Entry
- 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

## **4 UNITED STATES VS CHINA VS REST OF THE WORLD**

- 4.1 United States VS China: Mobile Phones Inertial Measurement Unit (IMU) Production Value Comparison
  - 4.1.1 United States VS China: Mobile Phones Inertial Measurement Unit (IMU) Production Value Comparison (2021 & 2025 & 2032)
  - 4.1.2 United States VS China: Mobile Phones Inertial Measurement Unit (IMU) Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Mobile Phones Inertial Measurement Unit (IMU) Production Comparison
  - 4.2.1 United States VS China: Mobile Phones Inertial Measurement Unit (IMU) Production Comparison (2021 & 2025 & 2032)
  - 4.2.2 United States VS China: Mobile Phones Inertial Measurement Unit (IMU) Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Mobile Phones Inertial Measurement Unit (IMU) Consumption Comparison
  - 4.3.1 United States VS China: Mobile Phones Inertial Measurement Unit (IMU) Consumption Comparison (2021 & 2025 & 2032)
  - 4.3.2 United States VS China: Mobile Phones Inertial Measurement Unit (IMU) Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Mobile Phones Inertial Measurement Unit (IMU) Manufacturers and Market Share, 2021-2026
  - 4.4.1 United States Based Mobile Phones Inertial Measurement Unit (IMU) Manufacturers, Headquarters and Production Site (States, Country)
  - 4.4.2 United States Based Manufacturers Mobile Phones Inertial Measurement Unit (IMU) Production Value (2021-2026)
  - 4.4.3 United States Based Manufacturers Mobile Phones Inertial Measurement Unit (IMU) Production (2021-2026)
- 4.5 China Based Mobile Phones Inertial Measurement Unit (IMU) Manufacturers and Market Share
  - 4.5.1 China Based Mobile Phones Inertial Measurement Unit (IMU) Manufacturers, Headquarters and Production Site (Province, Country)
  - 4.5.2 China Based Manufacturers Mobile Phones Inertial Measurement Unit (IMU) Production Value (2021-2026)

4.5.3 China Based Manufacturers Mobile Phones Inertial Measurement Unit (IMU) Production (2021-2026)

4.6 Rest of World Based Mobile Phones Inertial Measurement Unit (IMU) Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Mobile Phones Inertial Measurement Unit (IMU) Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Mobile Phones Inertial Measurement Unit (IMU) Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Mobile Phones Inertial Measurement Unit (IMU) Production (2021-2026)

## **5 MARKET ANALYSIS BY TYPE**

5.1 World Mobile Phones Inertial Measurement Unit (IMU) Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 4-axis

5.2.2 6-axis

5.2.3 Others

5.3 Market Segment by Type

5.3.1 World Mobile Phones Inertial Measurement Unit (IMU) Production by Type (2021-2032)

5.3.2 World Mobile Phones Inertial Measurement Unit (IMU) Production Value by Type (2021-2032)

5.3.3 World Mobile Phones Inertial Measurement Unit (IMU) Average Price by Type (2021-2032)

## **6 MARKET ANALYSIS BY INERTIAL SENSOR COMPOSITION**

6.1 World Mobile Phones Inertial Measurement Unit (IMU) Market Size Overview by Inertial Sensor Composition: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Inertial Sensor Composition

6.2.1 MEMS-IMU

6.2.2 Non-MEMS-IMU

6.3 Market Segment by Inertial Sensor Composition

6.3.1 World Mobile Phones Inertial Measurement Unit (IMU) Production by Inertial Sensor Composition (2021-2032)

6.3.2 World Mobile Phones Inertial Measurement Unit (IMU) Production Value by Inertial Sensor Composition (2021-2032)

6.3.3 World Mobile Phones Inertial Measurement Unit (IMU) Average Price by Inertial Sensor Composition (2021-2032)

## **7 MARKET ANALYSIS BY MANUFACTURING PROCESS**

7.1 World Mobile Phones Inertial Measurement Unit (IMU) Market Size Overview by Manufacturing Process: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Manufacturing Process

7.2.1 CMOS IMU

7.2.2 SOC IMU

7.2.3 Others

7.3 Market Segment by Manufacturing Process

7.3.1 World Mobile Phones Inertial Measurement Unit (IMU) Production by Manufacturing Process (2021-2032)

7.3.2 World Mobile Phones Inertial Measurement Unit (IMU) Production Value by Manufacturing Process (2021-2032)

7.3.3 World Mobile Phones Inertial Measurement Unit (IMU) Average Price by Manufacturing Process (2021-2032)

## **8 MARKET ANALYSIS BY APPLICATION**

8.1 World Mobile Phones Inertial Measurement Unit (IMU) Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Entry-level Phones

8.2.2 Mid-range Phones

8.2.3 High-end Phones

8.3 Market Segment by Application

8.3.1 World Mobile Phones Inertial Measurement Unit (IMU) Production by Application (2021-2032)

8.3.2 World Mobile Phones Inertial Measurement Unit (IMU) Production Value by Application (2021-2032)

8.3.3 World Mobile Phones Inertial Measurement Unit (IMU) Average Price by Application (2021-2032)

## **9 COMPANY PROFILES**

9.1 Bosch

9.1.1 Bosch Details

- 9.1.2 Bosch Major Business
- 9.1.3 Bosch Mobile Phones Inertial Measurement Unit (IMU) Product and Services
- 9.1.4 Bosch Mobile Phones Inertial Measurement Unit (IMU) Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.1.5 Bosch Recent Developments/Updates
- 9.1.6 Bosch Competitive Strengths & Weaknesses
- 9.2 TDK
  - 9.2.1 TDK Details
  - 9.2.2 TDK Major Business
  - 9.2.3 TDK Mobile Phones Inertial Measurement Unit (IMU) Product and Services
  - 9.2.4 TDK Mobile Phones Inertial Measurement Unit (IMU) Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.2.5 TDK Recent Developments/Updates
  - 9.2.6 TDK Competitive Strengths & Weaknesses
- 9.3 STMicroelectronics
  - 9.3.1 STMicroelectronics Details
  - 9.3.2 STMicroelectronics Major Business
  - 9.3.3 STMicroelectronics Mobile Phones Inertial Measurement Unit (IMU) Product and Services
  - 9.3.4 STMicroelectronics Mobile Phones Inertial Measurement Unit (IMU) Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.3.5 STMicroelectronics Recent Developments/Updates
  - 9.3.6 STMicroelectronics Competitive Strengths & Weaknesses
- 9.4 Murata
  - 9.4.1 Murata Details
  - 9.4.2 Murata Major Business
  - 9.4.3 Murata Mobile Phones Inertial Measurement Unit (IMU) Product and Services
  - 9.4.4 Murata Mobile Phones Inertial Measurement Unit (IMU) Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.4.5 Murata Recent Developments/Updates
  - 9.4.6 Murata Competitive Strengths & Weaknesses
- 9.5 Panasonic
  - 9.5.1 Panasonic Details
  - 9.5.2 Panasonic Major Business
  - 9.5.3 Panasonic Mobile Phones Inertial Measurement Unit (IMU) Product and Services
  - 9.5.4 Panasonic Mobile Phones Inertial Measurement Unit (IMU) Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.5.5 Panasonic Recent Developments/Updates
  - 9.5.6 Panasonic Competitive Strengths & Weaknesses

## 9.6 Senodia

### 9.6.1 Senodia Details

### 9.6.2 Senodia Major Business

### 9.6.3 Senodia Mobile Phones Inertial Measurement Unit (IMU) Product and Services

### 9.6.4 Senodia Mobile Phones Inertial Measurement Unit (IMU) Production, Price, Value, Gross Margin and Market Share (2021-2026)

### 9.6.5 Senodia Recent Developments/Updates

### 9.6.6 Senodia Competitive Strengths & Weaknesses

## 9.7 QST Corporation

### 9.7.1 QST Corporation Details

### 9.7.2 QST Corporation Major Business

### 9.7.3 QST Corporation Mobile Phones Inertial Measurement Unit (IMU) Product and Services

### 9.7.4 QST Corporation Mobile Phones Inertial Measurement Unit (IMU) Production, Price, Value, Gross Margin and Market Share (2021-2026)

### 9.7.5 QST Corporation Recent Developments/Updates

### 9.7.6 QST Corporation Competitive Strengths & Weaknesses

## 9.8 Silan Microelectronics

### 9.8.1 Silan Microelectronics Details

### 9.8.2 Silan Microelectronics Major Business

### 9.8.3 Silan Microelectronics Mobile Phones Inertial Measurement Unit (IMU) Product and Services

### 9.8.4 Silan Microelectronics Mobile Phones Inertial Measurement Unit (IMU) Production, Price, Value, Gross Margin and Market Share (2021-2026)

### 9.8.5 Silan Microelectronics Recent Developments/Updates

### 9.8.6 Silan Microelectronics Competitive Strengths & Weaknesses

## 9.9 Memsic

### 9.9.1 Memsic Details

### 9.9.2 Memsic Major Business

### 9.9.3 Memsic Mobile Phones Inertial Measurement Unit (IMU) Product and Services

### 9.9.4 Memsic Mobile Phones Inertial Measurement Unit (IMU) Production, Price, Value, Gross Margin and Market Share (2021-2026)

### 9.9.5 Memsic Recent Developments/Updates

### 9.9.6 Memsic Competitive Strengths & Weaknesses

## 10 INDUSTRY CHAIN ANALYSIS

### 10.1 Mobile Phones Inertial Measurement Unit (IMU) Industry Chain

### 10.2 Mobile Phones Inertial Measurement Unit (IMU) Upstream Analysis

- 10.2.1 Mobile Phones Inertial Measurement Unit (IMU) Core Raw Materials
- 10.2.2 Main Manufacturers of Mobile Phones Inertial Measurement Unit (IMU) Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 Mobile Phones Inertial Measurement Unit (IMU) Production Mode
- 10.6 Mobile Phones Inertial Measurement Unit (IMU) Procurement Model
- 10.7 Mobile Phones Inertial Measurement Unit (IMU) Industry Sales Model and Sales Channels
  - 10.7.1 Mobile Phones Inertial Measurement Unit (IMU) Sales Model
  - 10.7.2 Mobile Phones Inertial Measurement Unit (IMU) Typical Distributors

## **11 RESEARCH FINDINGS AND CONCLUSION**

## **12 APPENDIX**

- 12.1 Methodology
- 12.2 Research Process and Data Source
- 12.3 Disclaimer

## List Of Tables

### LIST OF TABLES

Table 1. World Mobile Phones Inertial Measurement Unit (IMU) Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Mobile Phones Inertial Measurement Unit (IMU) Production Value by Region (2021-2026) & (USD Million)

Table 3. World Mobile Phones Inertial Measurement Unit (IMU) Production Value by Region (2027-2032) & (USD Million)

Table 4. World Mobile Phones Inertial Measurement Unit (IMU) Production Value Market Share by Region (2021-2026)

Table 5. World Mobile Phones Inertial Measurement Unit (IMU) Production Value Market Share by Region (2027-2032)

Table 6. World Mobile Phones Inertial Measurement Unit (IMU) Production by Region (2021-2026) & (K Units)

Table 7. World Mobile Phones Inertial Measurement Unit (IMU) Production by Region (2027-2032) & (K Units)

Table 8. World Mobile Phones Inertial Measurement Unit (IMU) Production Market Share by Region (2021-2026)

Table 9. World Mobile Phones Inertial Measurement Unit (IMU) Production Market Share by Region (2027-2032)

Table 10. World Mobile Phones Inertial Measurement Unit (IMU) Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Mobile Phones Inertial Measurement Unit (IMU) Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Mobile Phones Inertial Measurement Unit (IMU) Major Market Trends

Table 13. World Mobile Phones Inertial Measurement Unit (IMU) Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)

Table 14. World Mobile Phones Inertial Measurement Unit (IMU) Consumption by Region (2021-2026) & (K Units)

Table 15. World Mobile Phones Inertial Measurement Unit (IMU) Consumption Forecast by Region (2027-2032) & (K Units)

Table 16. World Mobile Phones Inertial Measurement Unit (IMU) Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Mobile Phones Inertial Measurement Unit (IMU) Producers in 2025

Table 18. World Mobile Phones Inertial Measurement Unit (IMU) Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key Mobile Phones Inertial Measurement Unit (IMU) Producers in 2025

Table 20. World Mobile Phones Inertial Measurement Unit (IMU) Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Mobile Phones Inertial Measurement Unit (IMU) Company Evaluation Quadrant

Table 22. World Mobile Phones Inertial Measurement Unit (IMU) Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Mobile Phones Inertial Measurement Unit (IMU) Production Site of Key Manufacturer

Table 24. Mobile Phones Inertial Measurement Unit (IMU) Market: Company Product Type Footprint

Table 25. Mobile Phones Inertial Measurement Unit (IMU) Market: Company Product Application Footprint

Table 26. Mobile Phones Inertial Measurement Unit (IMU) Competitive Factors

Table 27. Mobile Phones Inertial Measurement Unit (IMU) New Entrant and Capacity Expansion Plans

Table 28. Mobile Phones Inertial Measurement Unit (IMU) Mergers & Acquisitions Activity

Table 29. United States VS China Mobile Phones Inertial Measurement Unit (IMU) Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Mobile Phones Inertial Measurement Unit (IMU) Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China Mobile Phones Inertial Measurement Unit (IMU) Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based Mobile Phones Inertial Measurement Unit (IMU) Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Mobile Phones Inertial Measurement Unit (IMU) Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Mobile Phones Inertial Measurement Unit (IMU) Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Mobile Phones Inertial Measurement Unit (IMU) Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers Mobile Phones Inertial Measurement Unit (IMU) Production Market Share (2021-2026)

Table 37. China Based Mobile Phones Inertial Measurement Unit (IMU) Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Mobile Phones Inertial Measurement Unit (IMU) Production Value, (2021-2026) & (USD Million)

- Table 39. China Based Manufacturers Mobile Phones Inertial Measurement Unit (IMU) Production Value Market Share (2021-2026)
- Table 40. China Based Manufacturers Mobile Phones Inertial Measurement Unit (IMU) Production, (2021-2026) & (K Units)
- Table 41. China Based Manufacturers Mobile Phones Inertial Measurement Unit (IMU) Production Market Share (2021-2026)
- Table 42. Rest of World Based Mobile Phones Inertial Measurement Unit (IMU) Manufacturers, Headquarters and Production Site (State, Country)
- Table 43. Rest of World Based Manufacturers Mobile Phones Inertial Measurement Unit (IMU) Production Value, (2021-2026) & (USD Million)
- Table 44. Rest of World Based Manufacturers Mobile Phones Inertial Measurement Unit (IMU) Production Value Market Share (2021-2026)
- Table 45. Rest of World Based Manufacturers Mobile Phones Inertial Measurement Unit (IMU) Production, (2021-2026) & (K Units)
- Table 46. Rest of World Based Manufacturers Mobile Phones Inertial Measurement Unit (IMU) Production Market Share (2021-2026)
- Table 47. World Mobile Phones Inertial Measurement Unit (IMU) Production Value by Type, (USD Million), 2021 & 2025 & 2032
- Table 48. World Mobile Phones Inertial Measurement Unit (IMU) Production by Type (2021-2026) & (K Units)
- Table 49. World Mobile Phones Inertial Measurement Unit (IMU) Production by Type (2027-2032) & (K Units)
- Table 50. World Mobile Phones Inertial Measurement Unit (IMU) Production Value by Type (2021-2026) & (USD Million)
- Table 51. World Mobile Phones Inertial Measurement Unit (IMU) Production Value by Type (2027-2032) & (USD Million)
- Table 52. World Mobile Phones Inertial Measurement Unit (IMU) Average Price by Type (2021-2026) & (US\$/Unit)
- Table 53. World Mobile Phones Inertial Measurement Unit (IMU) Average Price by Type (2027-2032) & (US\$/Unit)
- Table 54. World Mobile Phones Inertial Measurement Unit (IMU) Production Value by Inertial Sensor Composition, (USD Million), 2021 & 2025 & 2032
- Table 55. World Mobile Phones Inertial Measurement Unit (IMU) Production by Inertial Sensor Composition (2021-2026) & (K Units)
- Table 56. World Mobile Phones Inertial Measurement Unit (IMU) Production by Inertial Sensor Composition (2027-2032) & (K Units)
- Table 57. World Mobile Phones Inertial Measurement Unit (IMU) Production Value by Inertial Sensor Composition (2021-2026) & (USD Million)
- Table 58. World Mobile Phones Inertial Measurement Unit (IMU) Production Value by

Inertial Sensor Composition (2027-2032) & (USD Million)

Table 59. World Mobile Phones Inertial Measurement Unit (IMU) Average Price by Inertial Sensor Composition (2021-2026) & (US\$/Unit)

Table 60. World Mobile Phones Inertial Measurement Unit (IMU) Average Price by Inertial Sensor Composition (2027-2032) & (US\$/Unit)

Table 61. World Mobile Phones Inertial Measurement Unit (IMU) Production Value by Manufacturing Process, (USD Million), 2021 & 2025 & 2032

Table 62. World Mobile Phones Inertial Measurement Unit (IMU) Production by Manufacturing Process (2021-2026) & (K Units)

Table 63. World Mobile Phones Inertial Measurement Unit (IMU) Production by Manufacturing Process (2027-2032) & (K Units)

Table 64. World Mobile Phones Inertial Measurement Unit (IMU) Production Value by Manufacturing Process (2021-2026) & (USD Million)

Table 65. World Mobile Phones Inertial Measurement Unit (IMU) Production Value by Manufacturing Process (2027-2032) & (USD Million)

Table 66. World Mobile Phones Inertial Measurement Unit (IMU) Average Price by Manufacturing Process (2021-2026) & (US\$/Unit)

Table 67. World Mobile Phones Inertial Measurement Unit (IMU) Average Price by Manufacturing Process (2027-2032) & (US\$/Unit)

Table 68. World Mobile Phones Inertial Measurement Unit (IMU) Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Mobile Phones Inertial Measurement Unit (IMU) Production by Application (2021-2026) & (K Units)

Table 70. World Mobile Phones Inertial Measurement Unit (IMU) Production by Application (2027-2032) & (K Units)

Table 71. World Mobile Phones Inertial Measurement Unit (IMU) Production Value by Application (2021-2026) & (USD Million)

Table 72. World Mobile Phones Inertial Measurement Unit (IMU) Production Value by Application (2027-2032) & (USD Million)

Table 73. World Mobile Phones Inertial Measurement Unit (IMU) Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World Mobile Phones Inertial Measurement Unit (IMU) Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. Bosch Basic Information, Manufacturing Base and Competitors

Table 76. Bosch Major Business

Table 77. Bosch Mobile Phones Inertial Measurement Unit (IMU) Product and Services

Table 78. Bosch Mobile Phones Inertial Measurement Unit (IMU) Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Bosch Recent Developments/Updates

Table 80. Bosch Competitive Strengths & Weaknesses

Table 81. TDK Basic Information, Manufacturing Base and Competitors

Table 82. TDK Major Business

Table 83. TDK Mobile Phones Inertial Measurement Unit (IMU) Product and Services

Table 84. TDK Mobile Phones Inertial Measurement Unit (IMU) Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. TDK Recent Developments/Updates

Table 86. TDK Competitive Strengths & Weaknesses

Table 87. STMicroelectronics Basic Information, Manufacturing Base and Competitors

Table 88. STMicroelectronics Major Business

Table 89. STMicroelectronics Mobile Phones Inertial Measurement Unit (IMU) Product and Services

Table 90. STMicroelectronics Mobile Phones Inertial Measurement Unit (IMU) Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. STMicroelectronics Recent Developments/Updates

Table 92. STMicroelectronics Competitive Strengths & Weaknesses

Table 93. Murata Basic Information, Manufacturing Base and Competitors

Table 94. Murata Major Business

Table 95. Murata Mobile Phones Inertial Measurement Unit (IMU) Product and Services

Table 96. Murata Mobile Phones Inertial Measurement Unit (IMU) Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Murata Recent Developments/Updates

Table 98. Murata Competitive Strengths & Weaknesses

Table 99. Panasonic Basic Information, Manufacturing Base and Competitors

Table 100. Panasonic Major Business

Table 101. Panasonic Mobile Phones Inertial Measurement Unit (IMU) Product and Services

Table 102. Panasonic Mobile Phones Inertial Measurement Unit (IMU) Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Panasonic Recent Developments/Updates

Table 104. Panasonic Competitive Strengths & Weaknesses

Table 105. Senodia Basic Information, Manufacturing Base and Competitors

Table 106. Senodia Major Business

Table 107. Senodia Mobile Phones Inertial Measurement Unit (IMU) Product and

## Services

Table 108. Senodia Mobile Phones Inertial Measurement Unit (IMU) Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Senodia Recent Developments/Updates

Table 110. Senodia Competitive Strengths & Weaknesses

Table 111. QST Corporation Basic Information, Manufacturing Base and Competitors

Table 112. QST Corporation Major Business

Table 113. QST Corporation Mobile Phones Inertial Measurement Unit (IMU) Product and Services

Table 114. QST Corporation Mobile Phones Inertial Measurement Unit (IMU) Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. QST Corporation Recent Developments/Updates

Table 116. QST Corporation Competitive Strengths & Weaknesses

Table 117. Silan Microelectronics Basic Information, Manufacturing Base and Competitors

Table 118. Silan Microelectronics Major Business

Table 119. Silan Microelectronics Mobile Phones Inertial Measurement Unit (IMU) Product and Services

Table 120. Silan Microelectronics Mobile Phones Inertial Measurement Unit (IMU) Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Silan Microelectronics Recent Developments/Updates

Table 122. Silan Microelectronics Competitive Strengths & Weaknesses

Table 123. Memsic Basic Information, Manufacturing Base and Competitors

Table 124. Memsic Major Business

Table 125. Memsic Mobile Phones Inertial Measurement Unit (IMU) Product and Services

Table 126. Memsic Mobile Phones Inertial Measurement Unit (IMU) Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Memsic Recent Developments/Updates

Table 128. Memsic Competitive Strengths & Weaknesses

Table 129. Global Key Players of Mobile Phones Inertial Measurement Unit (IMU) Upstream (Raw Materials)

Table 130. Global Mobile Phones Inertial Measurement Unit (IMU) Typical Customers

Table 131. Mobile Phones Inertial Measurement Unit (IMU) Typical Distributors

## List Of Figures

### LIST OF FIGURES

- Figure 1. Mobile Phones Inertial Measurement Unit (IMU) Picture
- Figure 2. World Mobile Phones Inertial Measurement Unit (IMU) Production Value: 2021 & 2025 & 2032, (USD Million)
- Figure 3. World Mobile Phones Inertial Measurement Unit (IMU) Production Value and Forecast (2021-2032) & (USD Million)
- Figure 4. World Mobile Phones Inertial Measurement Unit (IMU) Production (2021-2032) & (K Units)
- Figure 5. World Mobile Phones Inertial Measurement Unit (IMU) Average Price (2021-2032) & (US\$/Unit)
- Figure 6. World Mobile Phones Inertial Measurement Unit (IMU) Production Value Market Share by Region (2021-2032)
- Figure 7. World Mobile Phones Inertial Measurement Unit (IMU) Production Market Share by Region (2021-2032)
- Figure 8. North America Mobile Phones Inertial Measurement Unit (IMU) Production (2021-2032) & (K Units)
- Figure 9. Europe Mobile Phones Inertial Measurement Unit (IMU) Production (2021-2032) & (K Units)
- Figure 10. China Mobile Phones Inertial Measurement Unit (IMU) Production (2021-2032) & (K Units)
- Figure 11. Japan Mobile Phones Inertial Measurement Unit (IMU) Production (2021-2032) & (K Units)
- Figure 12. South Korea Mobile Phones Inertial Measurement Unit (IMU) Production (2021-2032) & (K Units)
- Figure 13. Southeast Asia Mobile Phones Inertial Measurement Unit (IMU) Production (2021-2032) & (K Units)
- Figure 14. China Taiwan Mobile Phones Inertial Measurement Unit (IMU) Production (2021-2032) & (K Units)
- Figure 15. Mobile Phones Inertial Measurement Unit (IMU) Market Drivers
- Figure 16. Factors Affecting Demand
- Figure 17. World Mobile Phones Inertial Measurement Unit (IMU) Consumption (2021-2032) & (K Units)
- Figure 18. World Mobile Phones Inertial Measurement Unit (IMU) Consumption Market Share by Region (2021-2032)
- Figure 19. United States Mobile Phones Inertial Measurement Unit (IMU) Consumption (2021-2032) & (K Units)

Figure 20. China Mobile Phones Inertial Measurement Unit (IMU) Consumption (2021-2032) & (K Units)

Figure 21. Europe Mobile Phones Inertial Measurement Unit (IMU) Consumption (2021-2032) & (K Units)

Figure 22. Japan Mobile Phones Inertial Measurement Unit (IMU) Consumption (2021-2032) & (K Units)

Figure 23. South Korea Mobile Phones Inertial Measurement Unit (IMU) Consumption (2021-2032) & (K Units)

Figure 24. ASEAN Mobile Phones Inertial Measurement Unit (IMU) Consumption (2021-2032) & (K Units)

Figure 25. India Mobile Phones Inertial Measurement Unit (IMU) Consumption (2021-2032) & (K Units)

Figure 26. Producer Shipments of Mobile Phones Inertial Measurement Unit (IMU) by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 27. Global Four-firm Concentration Ratios (CR4) for Mobile Phones Inertial Measurement Unit (IMU) Markets in 2025

Figure 28. Global Four-firm Concentration Ratios (CR8) for Mobile Phones Inertial Measurement Unit (IMU) Markets in 2025

Figure 29. United States VS China: Mobile Phones Inertial Measurement Unit (IMU) Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States VS China: Mobile Phones Inertial Measurement Unit (IMU) Production Market Share Comparison (2021 & 2025 & 2032)

Figure 31. United States VS China: Mobile Phones Inertial Measurement Unit (IMU) Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 32. United States Based Manufacturers Mobile Phones Inertial Measurement Unit (IMU) Production Market Share 2025

Figure 33. China Based Manufacturers Mobile Phones Inertial Measurement Unit (IMU) Production Market Share 2025

Figure 34. Rest of World Based Manufacturers Mobile Phones Inertial Measurement Unit (IMU) Production Market Share 2025

Figure 35. World Mobile Phones Inertial Measurement Unit (IMU) Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 36. World Mobile Phones Inertial Measurement Unit (IMU) Production Value Market Share by Type in 2025

Figure 37. 4-axis

Figure 38. 6-axis

Figure 39. Others

Figure 40. World Mobile Phones Inertial Measurement Unit (IMU) Production Market Share by Type (2021-2032)

Figure 41. World Mobile Phones Inertial Measurement Unit (IMU) Production Value Market Share by Type (2021-2032)

Figure 42. World Mobile Phones Inertial Measurement Unit (IMU) Average Price by Type (2021-2032) & (US\$/Unit)

Figure 43. World Mobile Phones Inertial Measurement Unit (IMU) Production Value by Inertial Sensor Composition, (USD Million), 2021 & 2025 & 2032

Figure 44. World Mobile Phones Inertial Measurement Unit (IMU) Production Value Market Share by Inertial Sensor Composition in 2025

Figure 45. MEMS-IMU

Figure 46. Non-MEMS-IMU

Figure 47. World Mobile Phones Inertial Measurement Unit (IMU) Production Market Share by Inertial Sensor Composition (2021-2032)

Figure 48. World Mobile Phones Inertial Measurement Unit (IMU) Production Value Market Share by Inertial Sensor Composition (2021-2032)

Figure 49. World Mobile Phones Inertial Measurement Unit (IMU) Average Price by Inertial Sensor Composition (2021-2032) & (US\$/Unit)

Figure 50. World Mobile Phones Inertial Measurement Unit (IMU) Production Value by Manufacturing Process, (USD Million), 2021 & 2025 & 2032

Figure 51. World Mobile Phones Inertial Measurement Unit (IMU) Production Value Market Share by Manufacturing Process in 2025

Figure 52. CMOS IMU

Figure 53. SOC IMU

Figure 54. Others

Figure 55. World Mobile Phones Inertial Measurement Unit (IMU) Production Market Share by Manufacturing Process (2021-2032)

Figure 56. World Mobile Phones Inertial Measurement Unit (IMU) Production Value Market Share by Manufacturing Process (2021-2032)

Figure 57. World Mobile Phones Inertial Measurement Unit (IMU) Average Price by Manufacturing Process (2021-2032) & (US\$/Unit)

Figure 58. World Mobile Phones Inertial Measurement Unit (IMU) Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 59. World Mobile Phones Inertial Measurement Unit (IMU) Production Value Market Share by Application in 2025

Figure 60. Entry-level Phones

Figure 61. Mid-range Phones

Figure 62. High-end Phones

Figure 63. World Mobile Phones Inertial Measurement Unit (IMU) Production Market Share by Application (2021-2032)

Figure 64. World Mobile Phones Inertial Measurement Unit (IMU) Production Value

Market Share by Application (2021-2032)

Figure 65. World Mobile Phones Inertial Measurement Unit (IMU) Average Price by Application (2021-2032) & (US\$/Unit)

Figure 66. Mobile Phones Inertial Measurement Unit (IMU) Industry Chain

Figure 67. Mobile Phones Inertial Measurement Unit (IMU) Procurement Model

Figure 68. Mobile Phones Inertial Measurement Unit (IMU) Sales Model

Figure 69. Mobile Phones Inertial Measurement Unit (IMU) Sales Channels, Direct Sales, and Distribution

Figure 70. Methodology

Figure 71. Research Process and Data Source

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