

# Global Drone Inertial Measurement Unit (IMU) Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global Drone Inertial Measurement Unit (IMU) market size was valued at US\$ 307 million in 2025 and is forecast to a readjusted size of US\$ 503 million by 2032 with a CAGR of 7.6% during review period.

A Drone Inertial Measurement Unit (IMU) is a highly integrated microelectromechanical core sensing chip dedicated to unmanned aerial vehicles, which integrates MEMS gyroscopes, MEMS accelerometers (and magnetometers in mid-to-high-end models) on a single chip/ chip set, and is equipped with built-in signal conditioning, calibration compensation and data preprocessing circuits. It can real-time collect and process the drone's three-axis angular velocity and three-axis linear acceleration (and spatial magnetic field) data, and output standardized sensing signals to the flight control system, serving as the hardware core of the drone to perceive its motion state and realize attitude control. The prices of drone IMU show a sharp tiered difference based on performance, with a huge gap from consumer to military grade. Consumer-grade MEMS IMU chips are priced at \$3-10 each, featuring basic multi-axis sensing, ideal for aerial photography and mini drones. Industrial general-grade chips range from \$50-350, with low temperature drift and anti-vibration performance, suitable for inspection and plant protection drones. High-end industrial surveying-grade chips cost \$300-900, boasting low zero bias and high dynamic response for aerial mapping and 3D modeling drones. Special military-grade chips are priced at \$1,000-50,000; the high-end fiber optic/laser models even exceed \$100,000, with reinforced packaging and full temperature range adaptability.

The industrial chain is clearly divided into three tiers with a technology-driven upstream

and demand-led downstream logic. Upstream covers core raw materials and wafers, including MEMS silicon wafers, SOI substrates and ASIC circuits, supplied by Bosch, TSMC and GlobalFoundries, accounting for about 35% of the total cost. Midstream focuses on chip design, manufacturing and packaging/testing, with leading players like ADI, STMicroelectronics, CoreMEMS and SMIC; the core barriers lie in advanced MEMS processes and high-precision calibration algorithms. Downstream includes IMU module integrators, drone OEMs and flight control system suppliers such as DJI and Yuneec. Terminal enterprises dominate demand selection and pricing gradients, driving the iterative upgrading of midstream chip performance and upstream material innovation.

This report is a detailed and comprehensive analysis for global Drone Inertial Measurement Unit (IMU) market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

### **Key Features:**

Global Drone Inertial Measurement Unit (IMU) market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Drone Inertial Measurement Unit (IMU) market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Drone Inertial Measurement Unit (IMU) market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Drone Inertial Measurement Unit (IMU) market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

### **The Primary Objectives in This Report Are:**

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Drone Inertial Measurement Unit (IMU)  
To forecast future growth in each product and end-use market  
To assess competitive factors affecting the marketplace

This report profiles key players in the global Drone Inertial Measurement Unit (IMU) market based on the following parameters - company overview, sales quantity, revenue, 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.

## **Market Segmentation**

Drone Inertial Measurement Unit (IMU) market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

### Market segment by Type

4-axis

6-axis

Others

### Market segment by Inertial Sensor Composition

MEMS-IMU

Non-MEMS-IMU

### Market segment by Manufacturing Process

CMOS IMU

SOC IMU

Others

#### Market segment by Application

Consumer Drones

Industrial Drones

Military Drones

#### Major players covered

Bosch

TDK

STMicroelectronics

Murata

Panasonic

Senodia

QST Corporation

Silan Microelectronics

Memsic

Market segment by region, regional analysis covers  
North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)  
Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)  
South America (Brazil, Argentina, Colombia, and Rest of South America)  
Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

**The content of the study subjects, includes a total of 15 chapters:**

Chapter 1, to describe Drone Inertial Measurement Unit (IMU) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Drone Inertial Measurement Unit (IMU), with price, sales quantity, revenue, and global market share of Drone Inertial Measurement Unit (IMU) from 2021 to 2026.

Chapter 3, the Drone Inertial Measurement Unit (IMU) competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Drone Inertial Measurement Unit (IMU) breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Drone Inertial Measurement Unit (IMU) market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Drone Inertial Measurement Unit (IMU).

Chapter 14 and 15, to describe Drone Inertial Measurement Unit (IMU) sales channel, distributors, customers, research findings and conclusion.

## Contents

### 1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Disposable Endoscope Module Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 Illumination Module

1.3.3 Camera Module

1.3.4 Other

1.4 Market Analysis by Technology Type

1.4.1 Overview: Global Disposable Endoscope Module Consumption Value by Technology Type: 2021 Versus 2025 Versus 2032

1.4.2 WLO Module

1.4.3 WLS Module

1.4.4 WLI Module

1.4.5 Other

1.5 Market Analysis by Function

1.5.1 Overview: Global Disposable Endoscope Module Consumption Value by Function: 2021 Versus 2025 Versus 2032

1.5.2 Disposable Bronchoscope Module

1.5.3 Disposable Ureteroscope Module

1.5.4 Disposable Gastroscope Module

1.5.5 Other

1.6 Market Analysis by Application

1.6.1 Overview: Global Disposable Endoscope Module Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.6.2 Hospital

1.6.3 Clinic

1.6.4 Other

1.7 Global Disposable Endoscope Module Market Size & Forecast

1.7.1 Global Disposable Endoscope Module Consumption Value (2021 & 2025 & 2032)

1.7.2 Global Disposable Endoscope Module Sales Quantity (2021-2032)

1.7.3 Global Disposable Endoscope Module Average Price (2021-2032)

### 2 MANUFACTURERS PROFILES

## 2.1 ams Osram

2.1.1 ams Osram Details

2.1.2 ams Osram Major Business

2.1.3 ams Osram Disposable Endoscope Module Product and Services

2.1.4 ams Osram Disposable Endoscope Module Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.1.5 ams Osram Recent Developments/Updates

## 2.2 Omnivision Group

2.2.1 Omnivision Group Details

2.2.2 Omnivision Group Major Business

2.2.3 Omnivision Group Disposable Endoscope Module Product and Services

2.2.4 Omnivision Group Disposable Endoscope Module Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.2.5 Omnivision Group Recent Developments/Updates

## 2.3 Ofilm

2.3.1 Ofilm Details

2.3.2 Ofilm Major Business

2.3.3 Ofilm Disposable Endoscope Module Product and Services

2.3.4 Ofilm Disposable Endoscope Module Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.3.5 Ofilm Recent Developments/Updates

## 2.4 Focuslight Technologies Inc.

2.4.1 Focuslight Technologies Inc. Details

2.4.2 Focuslight Technologies Inc. Major Business

2.4.3 Focuslight Technologies Inc. Disposable Endoscope Module Product and Services

2.4.4 Focuslight Technologies Inc. Disposable Endoscope Module Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.4.5 Focuslight Technologies Inc. Recent Developments/Updates

## 2.5 Gpixel Changchun Microelectronics Inc.

2.5.1 Gpixel Changchun Microelectronics Inc. Details

2.5.2 Gpixel Changchun Microelectronics Inc. Major Business

2.5.3 Gpixel Changchun Microelectronics Inc. Disposable Endoscope Module Product and Services

2.5.4 Gpixel Changchun Microelectronics Inc. Disposable Endoscope Module Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.5.5 Gpixel Changchun Microelectronics Inc. Recent Developments/Updates

## 2.6 ChengDu Image Design Technology

- 2.6.1 ChengDu Image Design Technology Details
- 2.6.2 ChengDu Image Design Technology Major Business
- 2.6.3 ChengDu Image Design Technology Disposable Endoscope Module Product and Services
- 2.6.4 ChengDu Image Design Technology Disposable Endoscope Module Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.6.5 ChengDu Image Design Technology Recent Developments/Updates
- 2.7 Shenzhen SENKIN Electronics
  - 2.7.1 Shenzhen SENKIN Electronics Details
  - 2.7.2 Shenzhen SENKIN Electronics Major Business
  - 2.7.3 Shenzhen SENKIN Electronics Disposable Endoscope Module Product and Services
  - 2.7.4 Shenzhen SENKIN Electronics Disposable Endoscope Module Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.7.5 Shenzhen SENKIN Electronics Recent Developments/Updates
- 2.8 Jiangsu Xiheal Medical Technology
  - 2.8.1 Jiangsu Xiheal Medical Technology Details
  - 2.8.2 Jiangsu Xiheal Medical Technology Major Business
  - 2.8.3 Jiangsu Xiheal Medical Technology Disposable Endoscope Module Product and Services
  - 2.8.4 Jiangsu Xiheal Medical Technology Disposable Endoscope Module Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.8.5 Jiangsu Xiheal Medical Technology Recent Developments/Updates
- 2.9 Shenzhen Fuchengtong Electronic Technology
  - 2.9.1 Shenzhen Fuchengtong Electronic Technology Details
  - 2.9.2 Shenzhen Fuchengtong Electronic Technology Major Business
  - 2.9.3 Shenzhen Fuchengtong Electronic Technology Disposable Endoscope Module Product and Services
  - 2.9.4 Shenzhen Fuchengtong Electronic Technology Disposable Endoscope Module Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.9.5 Shenzhen Fuchengtong Electronic Technology Recent Developments/Updates
- 2.10 Guangzhou WiserScope
  - 2.10.1 Guangzhou WiserScope Details
  - 2.10.2 Guangzhou WiserScope Major Business
  - 2.10.3 Guangzhou WiserScope Disposable Endoscope Module Product and Services
  - 2.10.4 Guangzhou WiserScope Disposable Endoscope Module Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.10.5 Guangzhou WiserScope Recent Developments/Updates

### **3 COMPETITIVE ENVIRONMENT: DISPOSABLE ENDOSCOPE MODULE BY MANUFACTURER**

- 3.1 Global Disposable Endoscope Module Sales Quantity by Manufacturer (2021-2026)
- 3.2 Global Disposable Endoscope Module Revenue by Manufacturer (2021-2026)
- 3.3 Global Disposable Endoscope Module Average Price by Manufacturer (2021-2026)
- 3.4 Market Share Analysis (2025)
  - 3.4.1 Producer Shipments of Disposable Endoscope Module by Manufacturer Revenue (\$MM) and Market Share (%): 2025
  - 3.4.2 Top 3 Disposable Endoscope Module Manufacturer Market Share in 2025
  - 3.4.3 Top 6 Disposable Endoscope Module Manufacturer Market Share in 2025
- 3.5 Disposable Endoscope Module Market: Overall Company Footprint Analysis
  - 3.5.1 Disposable Endoscope Module Market: Region Footprint
  - 3.5.2 Disposable Endoscope Module Market: Company Product Type Footprint
  - 3.5.3 Disposable Endoscope Module Market: Company Product Application Footprint
- 3.6 New Market Entrants and Barriers to Market Entry
- 3.7 Mergers, Acquisition, Agreements, and Collaborations

### **4 CONSUMPTION ANALYSIS BY REGION**

- 4.1 Global Disposable Endoscope Module Market Size by Region
  - 4.1.1 Global Disposable Endoscope Module Sales Quantity by Region (2021-2032)
  - 4.1.2 Global Disposable Endoscope Module Consumption Value by Region (2021-2032)
  - 4.1.3 Global Disposable Endoscope Module Average Price by Region (2021-2032)
- 4.2 North America Disposable Endoscope Module Consumption Value (2021-2032)
- 4.3 Europe Disposable Endoscope Module Consumption Value (2021-2032)
- 4.4 Asia-Pacific Disposable Endoscope Module Consumption Value (2021-2032)
- 4.5 South America Disposable Endoscope Module Consumption Value (2021-2032)
- 4.6 Middle East & Africa Disposable Endoscope Module Consumption Value (2021-2032)

### **5 MARKET SEGMENT BY TYPE**

- 5.1 Global Disposable Endoscope Module Sales Quantity by Type (2021-2032)
- 5.2 Global Disposable Endoscope Module Consumption Value by Type (2021-2032)
- 5.3 Global Disposable Endoscope Module Average Price by Type (2021-2032)

### **6 MARKET SEGMENT BY APPLICATION**

- 6.1 Global Disposable Endoscope Module Sales Quantity by Application (2021-2032)
- 6.2 Global Disposable Endoscope Module Consumption Value by Application (2021-2032)
- 6.3 Global Disposable Endoscope Module Average Price by Application (2021-2032)

## **7 NORTH AMERICA**

- 7.1 North America Disposable Endoscope Module Sales Quantity by Type (2021-2032)
- 7.2 North America Disposable Endoscope Module Sales Quantity by Application (2021-2032)
- 7.3 North America Disposable Endoscope Module Market Size by Country
  - 7.3.1 North America Disposable Endoscope Module Sales Quantity by Country (2021-2032)
  - 7.3.2 North America Disposable Endoscope Module Consumption Value by Country (2021-2032)
  - 7.3.3 United States Market Size and Forecast (2021-2032)
  - 7.3.4 Canada Market Size and Forecast (2021-2032)
  - 7.3.5 Mexico Market Size and Forecast (2021-2032)

## **8 EUROPE**

- 8.1 Europe Disposable Endoscope Module Sales Quantity by Type (2021-2032)
- 8.2 Europe Disposable Endoscope Module Sales Quantity by Application (2021-2032)
- 8.3 Europe Disposable Endoscope Module Market Size by Country
  - 8.3.1 Europe Disposable Endoscope Module Sales Quantity by Country (2021-2032)
  - 8.3.2 Europe Disposable Endoscope Module Consumption Value by Country (2021-2032)
  - 8.3.3 Germany Market Size and Forecast (2021-2032)
  - 8.3.4 France Market Size and Forecast (2021-2032)
  - 8.3.5 United Kingdom Market Size and Forecast (2021-2032)
  - 8.3.6 Russia Market Size and Forecast (2021-2032)
  - 8.3.7 Italy Market Size and Forecast (2021-2032)

## **9 ASIA-PACIFIC**

- 9.1 Asia-Pacific Disposable Endoscope Module Sales Quantity by Type (2021-2032)
- 9.2 Asia-Pacific Disposable Endoscope Module Sales Quantity by Application (2021-2032)

### 9.3 Asia-Pacific Disposable Endoscope Module Market Size by Region

9.3.1 Asia-Pacific Disposable Endoscope Module Sales Quantity by Region (2021-2032)

9.3.2 Asia-Pacific Disposable Endoscope Module Consumption Value by Region (2021-2032)

9.3.3 China Market Size and Forecast (2021-2032)

9.3.4 Japan Market Size and Forecast (2021-2032)

9.3.5 South Korea Market Size and Forecast (2021-2032)

9.3.6 India Market Size and Forecast (2021-2032)

9.3.7 Southeast Asia Market Size and Forecast (2021-2032)

9.3.8 Australia Market Size and Forecast (2021-2032)

## 10 SOUTH AMERICA

10.1 South America Disposable Endoscope Module Sales Quantity by Type (2021-2032)

10.2 South America Disposable Endoscope Module Sales Quantity by Application (2021-2032)

10.3 South America Disposable Endoscope Module Market Size by Country

10.3.1 South America Disposable Endoscope Module Sales Quantity by Country (2021-2032)

10.3.2 South America Disposable Endoscope Module Consumption Value by Country (2021-2032)

10.3.3 Brazil Market Size and Forecast (2021-2032)

10.3.4 Argentina Market Size and Forecast (2021-2032)

## 11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa Disposable Endoscope Module Sales Quantity by Type (2021-2032)

11.2 Middle East & Africa Disposable Endoscope Module Sales Quantity by Application (2021-2032)

11.3 Middle East & Africa Disposable Endoscope Module Market Size by Country

11.3.1 Middle East & Africa Disposable Endoscope Module Sales Quantity by Country (2021-2032)

11.3.2 Middle East & Africa Disposable Endoscope Module Consumption Value by Country (2021-2032)

11.3.3 Turkey Market Size and Forecast (2021-2032)

11.3.4 Egypt Market Size and Forecast (2021-2032)

11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)

11.3.6 South Africa Market Size and Forecast (2021-2032)

## **12 MARKET DYNAMICS**

12.1 Disposable Endoscope Module Market Drivers

12.2 Disposable Endoscope Module Market Restraints

12.3 Disposable Endoscope Module Trends Analysis

12.4 Porters Five Forces Analysis

12.4.1 Threat of New Entrants

12.4.2 Bargaining Power of Suppliers

12.4.3 Bargaining Power of Buyers

12.4.4 Threat of Substitutes

12.4.5 Competitive Rivalry

## **13 RAW MATERIAL AND INDUSTRY CHAIN**

13.1 Raw Material of Disposable Endoscope Module and Key Manufacturers

13.2 Manufacturing Costs Percentage of Disposable Endoscope Module

13.3 Disposable Endoscope Module Production Process

13.4 Industry Value Chain Analysis

## **14 SHIPMENTS BY DISTRIBUTION CHANNEL**

14.1 Sales Channel

14.1.1 Direct to End-User

14.1.2 Distributors

14.2 Disposable Endoscope Module Typical Distributors

14.3 Disposable Endoscope Module Typical Customers

## **15 RESEARCH FINDINGS AND CONCLUSION**

## **16 APPENDIX**

16.1 Methodology

16.2 Research Process and Data Source

16.3 Disclaimer

## List Of Tables

### LIST OF TABLES

Table 1. Global Drone Inertial Measurement Unit (IMU) Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global Drone Inertial Measurement Unit (IMU) Consumption Value by Inertial Sensor Composition, (USD Million), 2021 & 2025 & 2032

Table 3. Global Drone Inertial Measurement Unit (IMU) Consumption Value by Manufacturing Process, (USD Million), 2021 & 2025 & 2032

Table 4. Global Drone Inertial Measurement Unit (IMU) Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 5. Bosch Basic Information, Manufacturing Base and Competitors

Table 6. Bosch Major Business

Table 7. Bosch Drone Inertial Measurement Unit (IMU) Product and Services

Table 8. Bosch Drone Inertial Measurement Unit (IMU) Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 9. Bosch Recent Developments/Updates

Table 10. TDK Basic Information, Manufacturing Base and Competitors

Table 11. TDK Major Business

Table 12. TDK Drone Inertial Measurement Unit (IMU) Product and Services

Table 13. TDK Drone Inertial Measurement Unit (IMU) Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 14. TDK Recent Developments/Updates

Table 15. STMicroelectronics Basic Information, Manufacturing Base and Competitors

Table 16. STMicroelectronics Major Business

Table 17. STMicroelectronics Drone Inertial Measurement Unit (IMU) Product and Services

Table 18. STMicroelectronics Drone Inertial Measurement Unit (IMU) Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 19. STMicroelectronics Recent Developments/Updates

Table 20. Murata Basic Information, Manufacturing Base and Competitors

Table 21. Murata Major Business

Table 22. Murata Drone Inertial Measurement Unit (IMU) Product and Services

Table 23. Murata Drone Inertial Measurement Unit (IMU) Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share

(2021-2026)

Table 24. Murata Recent Developments/Updates

Table 25. Panasonic Basic Information, Manufacturing Base and Competitors

Table 26. Panasonic Major Business

Table 27. Panasonic Drone Inertial Measurement Unit (IMU) Product and Services

Table 28. Panasonic Drone Inertial Measurement Unit (IMU) Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 29. Panasonic Recent Developments/Updates

Table 30. Senodia Basic Information, Manufacturing Base and Competitors

Table 31. Senodia Major Business

Table 32. Senodia Drone Inertial Measurement Unit (IMU) Product and Services

Table 33. Senodia Drone Inertial Measurement Unit (IMU) Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 34. Senodia Recent Developments/Updates

Table 35. QST Corporation Basic Information, Manufacturing Base and Competitors

Table 36. QST Corporation Major Business

Table 37. QST Corporation Drone Inertial Measurement Unit (IMU) Product and Services

Table 38. QST Corporation Drone Inertial Measurement Unit (IMU) Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 39. QST Corporation Recent Developments/Updates

Table 40. Silan Microelectronics Basic Information, Manufacturing Base and Competitors

Table 41. Silan Microelectronics Major Business

Table 42. Silan Microelectronics Drone Inertial Measurement Unit (IMU) Product and Services

Table 43. Silan Microelectronics Drone Inertial Measurement Unit (IMU) Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 44. Silan Microelectronics Recent Developments/Updates

Table 45. Memsic Basic Information, Manufacturing Base and Competitors

Table 46. Memsic Major Business

Table 47. Memsic Drone Inertial Measurement Unit (IMU) Product and Services

Table 48. Memsic Drone Inertial Measurement Unit (IMU) Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 49. Memsic Recent Developments/Updates

Table 50. Global Drone Inertial Measurement Unit (IMU) Sales Quantity by Manufacturer (2021-2026) & (K Units)

Table 51. Global Drone Inertial Measurement Unit (IMU) Revenue by Manufacturer (2021-2026) & (USD Million)

Table 52. Global Drone Inertial Measurement Unit (IMU) Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 53. Market Position of Manufacturers in Drone Inertial Measurement Unit (IMU), (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 54. Head Office and Drone Inertial Measurement Unit (IMU) Production Site of Key Manufacturer

Table 55. Drone Inertial Measurement Unit (IMU) Market: Company Product Type Footprint

Table 56. Drone Inertial Measurement Unit (IMU) Market: Company Product Application Footprint

Table 57. Drone Inertial Measurement Unit (IMU) New Market Entrants and Barriers to Market Entry

Table 58. Drone Inertial Measurement Unit (IMU) Mergers, Acquisition, Agreements, and Collaborations

Table 59. Global Drone Inertial Measurement Unit (IMU) Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 60. Global Drone Inertial Measurement Unit (IMU) Sales Quantity by Region (2021-2026) & (K Units)

Table 61. Global Drone Inertial Measurement Unit (IMU) Sales Quantity by Region (2027-2032) & (K Units)

Table 62. Global Drone Inertial Measurement Unit (IMU) Consumption Value by Region (2021-2026) & (USD Million)

Table 63. Global Drone Inertial Measurement Unit (IMU) Consumption Value by Region (2027-2032) & (USD Million)

Table 64. Global Drone Inertial Measurement Unit (IMU) Average Price by Region (2021-2026) & (US\$/Unit)

Table 65. Global Drone Inertial Measurement Unit (IMU) Average Price by Region (2027-2032) & (US\$/Unit)

Table 66. Global Drone Inertial Measurement Unit (IMU) Sales Quantity by Type (2021-2026) & (K Units)

Table 67. Global Drone Inertial Measurement Unit (IMU) Sales Quantity by Type (2027-2032) & (K Units)

Table 68. Global Drone Inertial Measurement Unit (IMU) Consumption Value by Type (2021-2026) & (USD Million)

Table 69. Global Drone Inertial Measurement Unit (IMU) Consumption Value by Type (2027-2032) & (USD Million)

Table 70. Global Drone Inertial Measurement Unit (IMU) Average Price by Type (2021-2026) & (US\$/Unit)

Table 71. Global Drone Inertial Measurement Unit (IMU) Average Price by Type (2027-2032) & (US\$/Unit)

Table 72. Global Drone Inertial Measurement Unit (IMU) Sales Quantity by Application (2021-2026) & (K Units)

Table 73. Global Drone Inertial Measurement Unit (IMU) Sales Quantity by Application (2027-2032) & (K Units)

Table 74. Global Drone Inertial Measurement Unit (IMU) Consumption Value by Application (2021-2026) & (USD Million)

Table 75. Global Drone Inertial Measurement Unit (IMU) Consumption Value by Application (2027-2032) & (USD Million)

Table 76. Global Drone Inertial Measurement Unit (IMU) Average Price by Application (2021-2026) & (US\$/Unit)

Table 77. Global Drone Inertial Measurement Unit (IMU) Average Price by Application (2027-2032) & (US\$/Unit)

Table 78. North America Drone Inertial Measurement Unit (IMU) Sales Quantity by Type (2021-2026) & (K Units)

Table 79. North America Drone Inertial Measurement Unit (IMU) Sales Quantity by Type (2027-2032) & (K Units)

Table 80. North America Drone Inertial Measurement Unit (IMU) Sales Quantity by Application (2021-2026) & (K Units)

Table 81. North America Drone Inertial Measurement Unit (IMU) Sales Quantity by Application (2027-2032) & (K Units)

Table 82. North America Drone Inertial Measurement Unit (IMU) Sales Quantity by Country (2021-2026) & (K Units)

Table 83. North America Drone Inertial Measurement Unit (IMU) Sales Quantity by Country (2027-2032) & (K Units)

Table 84. North America Drone Inertial Measurement Unit (IMU) Consumption Value by Country (2021-2026) & (USD Million)

Table 85. North America Drone Inertial Measurement Unit (IMU) Consumption Value by Country (2027-2032) & (USD Million)

Table 86. Europe Drone Inertial Measurement Unit (IMU) Sales Quantity by Type (2021-2026) & (K Units)

Table 87. Europe Drone Inertial Measurement Unit (IMU) Sales Quantity by Type (2027-2032) & (K Units)

Table 88. Europe Drone Inertial Measurement Unit (IMU) Sales Quantity by Application

(2021-2026) & (K Units)

Table 89. Europe Drone Inertial Measurement Unit (IMU) Sales Quantity by Application (2027-2032) & (K Units)

Table 90. Europe Drone Inertial Measurement Unit (IMU) Sales Quantity by Country (2021-2026) & (K Units)

Table 91. Europe Drone Inertial Measurement Unit (IMU) Sales Quantity by Country (2027-2032) & (K Units)

Table 92. Europe Drone Inertial Measurement Unit (IMU) Consumption Value by Country (2021-2026) & (USD Million)

Table 93. Europe Drone Inertial Measurement Unit (IMU) Consumption Value by Country (2027-2032) & (USD Million)

Table 94. Asia-Pacific Drone Inertial Measurement Unit (IMU) Sales Quantity by Type (2021-2026) & (K Units)

Table 95. Asia-Pacific Drone Inertial Measurement Unit (IMU) Sales Quantity by Type (2027-2032) & (K Units)

Table 96. Asia-Pacific Drone Inertial Measurement Unit (IMU) Sales Quantity by Application (2021-2026) & (K Units)

Table 97. Asia-Pacific Drone Inertial Measurement Unit (IMU) Sales Quantity by Application (2027-2032) & (K Units)

Table 98. Asia-Pacific Drone Inertial Measurement Unit (IMU) Sales Quantity by Region (2021-2026) & (K Units)

Table 99. Asia-Pacific Drone Inertial Measurement Unit (IMU) Sales Quantity by Region (2027-2032) & (K Units)

Table 100. Asia-Pacific Drone Inertial Measurement Unit (IMU) Consumption Value by Region (2021-2026) & (USD Million)

Table 101. Asia-Pacific Drone Inertial Measurement Unit (IMU) Consumption Value by Region (2027-2032) & (USD Million)

Table 102. South America Drone Inertial Measurement Unit (IMU) Sales Quantity by Type (2021-2026) & (K Units)

Table 103. South America Drone Inertial Measurement Unit (IMU) Sales Quantity by Type (2027-2032) & (K Units)

Table 104. South America Drone Inertial Measurement Unit (IMU) Sales Quantity by Application (2021-2026) & (K Units)

Table 105. South America Drone Inertial Measurement Unit (IMU) Sales Quantity by Application (2027-2032) & (K Units)

Table 106. South America Drone Inertial Measurement Unit (IMU) Sales Quantity by Country (2021-2026) & (K Units)

Table 107. South America Drone Inertial Measurement Unit (IMU) Sales Quantity by Country (2027-2032) & (K Units)

Table 108. South America Drone Inertial Measurement Unit (IMU) Consumption Value by Country (2021-2026) & (USD Million)

Table 109. South America Drone Inertial Measurement Unit (IMU) Consumption Value by Country (2027-2032) & (USD Million)

Table 110. Middle East & Africa Drone Inertial Measurement Unit (IMU) Sales Quantity by Type (2021-2026) & (K Units)

Table 111. Middle East & Africa Drone Inertial Measurement Unit (IMU) Sales Quantity by Type (2027-2032) & (K Units)

Table 112. Middle East & Africa Drone Inertial Measurement Unit (IMU) Sales Quantity by Application (2021-2026) & (K Units)

Table 113. Middle East & Africa Drone Inertial Measurement Unit (IMU) Sales Quantity by Application (2027-2032) & (K Units)

Table 114. Middle East & Africa Drone Inertial Measurement Unit (IMU) Sales Quantity by Country (2021-2026) & (K Units)

Table 115. Middle East & Africa Drone Inertial Measurement Unit (IMU) Sales Quantity by Country (2027-2032) & (K Units)

Table 116. Middle East & Africa Drone Inertial Measurement Unit (IMU) Consumption Value by Country (2021-2026) & (USD Million)

Table 117. Middle East & Africa Drone Inertial Measurement Unit (IMU) Consumption Value by Country (2027-2032) & (USD Million)

Table 118. Drone Inertial Measurement Unit (IMU) Raw Material

Table 119. Key Manufacturers of Drone Inertial Measurement Unit (IMU) Raw Materials

Table 120. Drone Inertial Measurement Unit (IMU) Typical Distributors

Table 121. Drone Inertial Measurement Unit (IMU) Typical Customers

## List Of Figures

### LIST OF FIGURES

- Figure 1. Drone Inertial Measurement Unit (IMU) Picture
- Figure 2. Global Drone Inertial Measurement Unit (IMU) Revenue by Type, (USD Million), 2021 & 2025 & 2032
- Figure 3. Global Drone Inertial Measurement Unit (IMU) Revenue Market Share by Type in 2025
- Figure 4. 4-axis Examples
- Figure 5. 6-axis Examples
- Figure 6. Others Examples
- Figure 7. Global Drone Inertial Measurement Unit (IMU) Revenue by Inertial Sensor Composition, (USD Million), 2021 & 2025 & 2032
- Figure 8. Global Drone Inertial Measurement Unit (IMU) Revenue Market Share by Inertial Sensor Composition in 2025
- Figure 9. MEMS-IMU Examples
- Figure 10. Non-MEMS-IMU Examples
- Figure 11. Global Drone Inertial Measurement Unit (IMU) Revenue by Manufacturing Process, (USD Million), 2021 & 2025 & 2032
- Figure 12. Global Drone Inertial Measurement Unit (IMU) Revenue Market Share by Manufacturing Process in 2025
- Figure 13. CMOS IMU Examples
- Figure 14. SOC IMU Examples
- Figure 15. Others Examples
- Figure 16. Global Drone Inertial Measurement Unit (IMU) Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
- Figure 17. Global Drone Inertial Measurement Unit (IMU) Revenue Market Share by Application in 2025
- Figure 18. Consumer Drones Examples
- Figure 19. Industrial Drones Examples
- Figure 20. Military Drones Examples
- Figure 21. Global Drone Inertial Measurement Unit (IMU) Consumption Value, (USD Million): 2021 & 2025 & 2032
- Figure 22. Global Drone Inertial Measurement Unit (IMU) Consumption Value and Forecast (2021-2032) & (USD Million)
- Figure 23. Global Drone Inertial Measurement Unit (IMU) Sales Quantity (2021-2032) & (K Units)
- Figure 24. Global Drone Inertial Measurement Unit (IMU) Price (2021-2032) &

(US\$/Unit)

Figure 25. Global Drone Inertial Measurement Unit (IMU) Sales Quantity Market Share by Manufacturer in 2025

Figure 26. Global Drone Inertial Measurement Unit (IMU) Revenue Market Share by Manufacturer in 2025

Figure 27. Producer Shipments of Drone Inertial Measurement Unit (IMU) by Manufacturer Sales (\$MM) and Market Share (%): 2025

Figure 28. Top 3 Drone Inertial Measurement Unit (IMU) Manufacturer (Revenue) Market Share in 2025

Figure 29. Top 6 Drone Inertial Measurement Unit (IMU) Manufacturer (Revenue) Market Share in 2025

Figure 30. Global Drone Inertial Measurement Unit (IMU) Sales Quantity Market Share by Region (2021-2032)

Figure 31. Global Drone Inertial Measurement Unit (IMU) Consumption Value Market Share by Region (2021-2032)

Figure 32. North America Drone Inertial Measurement Unit (IMU) Consumption Value (2021-2032) & (USD Million)

Figure 33. Europe Drone Inertial Measurement Unit (IMU) Consumption Value (2021-2032) & (USD Million)

Figure 34. Asia-Pacific Drone Inertial Measurement Unit (IMU) Consumption Value (2021-2032) & (USD Million)

Figure 35. South America Drone Inertial Measurement Unit (IMU) Consumption Value (2021-2032) & (USD Million)

Figure 36. Middle East & Africa Drone Inertial Measurement Unit (IMU) Consumption Value (2021-2032) & (USD Million)

Figure 37. Global Drone Inertial Measurement Unit (IMU) Sales Quantity Market Share by Type (2021-2032)

Figure 38. Global Drone Inertial Measurement Unit (IMU) Consumption Value Market Share by Type (2021-2032)

Figure 39. Global Drone Inertial Measurement Unit (IMU) Average Price by Type (2021-2032) & (US\$/Unit)

Figure 40. Global Drone Inertial Measurement Unit (IMU) Sales Quantity Market Share by Application (2021-2032)

Figure 41. Global Drone Inertial Measurement Unit (IMU) Revenue Market Share by Application (2021-2032)

Figure 42. Global Drone Inertial Measurement Unit (IMU) Average Price by Application (2021-2032) & (US\$/Unit)

Figure 43. North America Drone Inertial Measurement Unit (IMU) Sales Quantity Market Share by Type (2021-2032)

Figure 44. North America Drone Inertial Measurement Unit (IMU) Sales Quantity Market Share by Application (2021-2032)

Figure 45. North America Drone Inertial Measurement Unit (IMU) Sales Quantity Market Share by Country (2021-2032)

Figure 46. North America Drone Inertial Measurement Unit (IMU) Consumption Value Market Share by Country (2021-2032)

Figure 47. United States Drone Inertial Measurement Unit (IMU) Consumption Value (2021-2032) & (USD Million)

Figure 48. Canada Drone Inertial Measurement Unit (IMU) Consumption Value (2021-2032) & (USD Million)

Figure 49. Mexico Drone Inertial Measurement Unit (IMU) Consumption Value (2021-2032) & (USD Million)

Figure 50. Europe Drone Inertial Measurement Unit (IMU) Sales Quantity Market Share by Type (2021-2032)

Figure 51. Europe Drone Inertial Measurement Unit (IMU) Sales Quantity Market Share by Application (2021-2032)

Figure 52. Europe Drone Inertial Measurement Unit (IMU) Sales Quantity Market Share by Country (2021-2032)

Figure 53. Europe Drone Inertial Measurement Unit (IMU) Consumption Value Market Share by Country (2021-2032)

Figure 54. Germany Drone Inertial Measurement Unit (IMU) Consumption Value (2021-2032) & (USD Million)

Figure 55. France Drone Inertial Measurement Unit (IMU) Consumption Value (2021-2032) & (USD Million)

Figure 56. United Kingdom Drone Inertial Measurement Unit (IMU) Consumption Value (2021-2032) & (USD Million)

Figure 57. Russia Drone Inertial Measurement Unit (IMU) Consumption Value (2021-2032) & (USD Million)

Figure 58. Italy Drone Inertial Measurement Unit (IMU) Consumption Value (2021-2032) & (USD Million)

Figure 59. Asia-Pacific Drone Inertial Measurement Unit (IMU) Sales Quantity Market Share by Type (2021-2032)

Figure 60. Asia-Pacific Drone Inertial Measurement Unit (IMU) Sales Quantity Market Share by Application (2021-2032)

Figure 61. Asia-Pacific Drone Inertial Measurement Unit (IMU) Sales Quantity Market Share by Region (2021-2032)

Figure 62. Asia-Pacific Drone Inertial Measurement Unit (IMU) Consumption Value Market Share by Region (2021-2032)

Figure 63. China Drone Inertial Measurement Unit (IMU) Consumption Value

(2021-2032) & (USD Million)

Figure 64. Japan Drone Inertial Measurement Unit (IMU) Consumption Value

(2021-2032) & (USD Million)

Figure 65. South Korea Drone Inertial Measurement Unit (IMU) Consumption Value

(2021-2032) & (USD Million)

Figure 66. India Drone Inertial Measurement Unit (IMU) Consumption Value

(2021-2032) & (USD Million)

Figure 67. Southeast Asia Drone Inertial Measurement Unit (IMU) Consumption Value

(2021-2032) & (USD Million)

Figure 68. Australia Drone Inertial Measurement Unit (IMU) Consumption Value

(2021-2032) & (USD Million)

Figure 69. South America Drone Inertial Measurement Unit (IMU) Sales Quantity Market Share by Type (2021-2032)

Figure 70. South America Drone Inertial Measurement Unit (IMU) Sales Quantity Market Share by Application (2021-2032)

Figure 71. South America Drone Inertial Measurement Unit (IMU) Sales Quantity Market Share by Country (2021-2032)

Figure 72. South America Drone Inertial Measurement Unit (IMU) Consumption Value Market Share by Country (2021-2032)

Figure 73. Brazil Drone Inertial Measurement Unit (IMU) Consumption Value (2021-2032) & (USD Million)

Figure 74. Argentina Drone Inertial Measurement Unit (IMU) Consumption Value (2021-2032) & (USD Million)

Figure 75. Middle East & Africa Drone Inertial Measurement Unit (IMU) Sales Quantity Market Share by Type (2021-2032)

Figure 76. Middle East & Africa Drone Inertial Measurement Unit (IMU) Sales Quantity Market Share by Application (2021-2032)

Figure 77. Middle East & Africa Drone Inertial Measurement Unit (IMU) Sales Quantity Market Share by Country (2021-2032)

Figure 78. Middle East & Africa Drone Inertial Measurement Unit (IMU) Consumption Value Market Share by Country (2021-2032)

Figure 79. Turkey Drone Inertial Measurement Unit (IMU) Consumption Value (2021-2032) & (USD Million)

Figure 80. Egypt Drone Inertial Measurement Unit (IMU) Consumption Value (2021-2032) & (USD Million)

Figure 81. Saudi Arabia Drone Inertial Measurement Unit (IMU) Consumption Value (2021-2032) & (USD Million)

Figure 82. South Africa Drone Inertial Measurement Unit (IMU) Consumption Value (2021-2032) & (USD Million)

- Figure 83. Drone Inertial Measurement Unit (IMU) Market Drivers
- Figure 84. Drone Inertial Measurement Unit (IMU) Market Restraints
- Figure 85. Drone Inertial Measurement Unit (IMU) Market Trends
- Figure 86. Porters Five Forces Analysis
- Figure 87. Manufacturing Cost Structure Analysis of Drone Inertial Measurement Unit (IMU) in 2025
- Figure 88. Manufacturing Process Analysis of Drone Inertial Measurement Unit (IMU)
- Figure 89. Drone Inertial Measurement Unit (IMU) Industrial Chain
- Figure 90. Sales Channel: Direct to End-User vs Distributors
- Figure 91. Direct Channel Pros & Cons
- Figure 92. Indirect Channel Pros & Cons
- Figure 93. Methodology
- Figure 94. Research Process and Data Source

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