

Global Battery Monitor IC Market Growth 2026-2032

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Abstracts

The global Battery Monitor IC market size is predicted to grow from US\$ 3179 million in 2025 to US\$ 6962 million in 2032; it is expected to grow at a CAGR of 11.6% from 2026 to 2032.

A battery monitoring IC is a mixed-signal integrated circuit used in battery management systems to accurately measure cell voltage, temperature, current and fault conditions in a battery pack or module. It converts analog battery signals into digital information and communicates the data to a host MCU or battery management controller for state-of-charge estimation, state-of-health estimation, balancing control, overvoltage and undervoltage protection, thermal management and diagnostics. In electric vehicles and energy storage systems, multi-cell battery monitor and balancer ICs typically integrate high-accuracy ADCs, multiplexed analog front ends, precision references, open-wire detection, passive balancing switches, daisy-chain or isolated communication interfaces and functional-safety diagnostics. In consumer, power tool, e-bike and portable energy storage applications, the same category often emphasizes low power consumption, protection integration and cost efficiency.

Based on our research, battery monitoring ICs are among the most critical analog and mixed-signal components in a battery management system. Their core function is to convert cell voltage, temperature, current and fault-status information from a battery pack into accurate digital data that can be used by a host MCU or battery management controller. Compared with simple protection ICs or fuel gauges, BMS AFE devices require much higher capability in millivolt-level measurement under high common-mode voltage, multi-channel sampling, open-wire detection, short-circuit diagnostics, passive balancing, hot-plug robustness, daisy-chain communication, isolated communication and functional-safety diagnostics.

From a supply perspective, the high-end automotive BMS AFE market remains led by

global analog and automotive semiconductor companies, including ADI, TI, NXP, Renesas, Infineon, ST and Nuvoton. These companies have deep experience in high-voltage mixed-signal design, automotive qualification, functional safety, long product lifecycles and system-level reference designs. Chinese suppliers are progressing rapidly in energy storage, portable power, e-bikes, power tools and selected automotive projects, with companies such as GigaDevice, JoulWatt, BYD Semiconductor, Chipways, Datang NXP and SinoWealth showing different levels of product evidence and commercialization.

From a demand perspective, electric vehicles remain the largest revenue pool, while energy storage is one of the fastest-growing segments. Higher-voltage battery platforms, 800V systems, grid-side storage, commercial and industrial storage, residential storage and e-mobility are all increasing the need for higher channel counts, better measurement accuracy, more robust diagnostics and lower system cost. Low- and mid-cell-count markets have lower ASPs but much higher shipment volume, making them important entry points for local suppliers and highly integrated BMSoC vendors.

Looking forward, competition will increasingly be determined by safety architecture, measurement accuracy, integration, communication topology, diagnostic coverage and ecosystem adoption rather than price alone. Automotive customers prioritize ASIL compliance, AEC-Q100 qualification, fault-diagnostic coverage and platform validation, while energy storage customers emphasize long-chain communication reliability, cost efficiency and large-scale deployment stability. Global suppliers are likely to remain strong in high-end automotive platforms, but Chinese vendors are expected to gain share in ESS and industrial BMS and gradually move upward into automotive-grade applications.

LP Information, Inc. (LPI) ' newest research report, the "Battery Monitor IC Industry Forecast" looks at past sales and reviews total world Battery Monitor IC sales in 2025, providing a comprehensive analysis by region and market sector of projected Battery Monitor IC sales for 2026 through 2032. With Battery Monitor IC sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Battery Monitor IC industry.

This Insight Report provides a comprehensive analysis of the global Battery Monitor IC landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Battery Monitor IC portfolios and capabilities, market entry strategies, market positions, and

geographic footprints, to better understand these firms' unique position in an accelerating global Battery Monitor IC market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Battery Monitor IC and breaks down the forecast by Cell Count, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Battery Monitor IC.

This report presents a comprehensive overview, market shares, and growth opportunities of Battery Monitor IC market by product type, application, key manufacturers and key regions and countries.

Segmentation by Cell Count:

1?2 Cell Monitor

3?8 Cell Monitor

9?16 Cell Monitor

17?25 Cell Monitor

Segmentation by Communication Architecture:

Daisy-chain Communication

Isolated UART / Transformer-based Link

SPI / I²C Interface

Wireless BMS Communication

Segmentation by Battery Chemistry:

Sodium-ion Battery Monitor

LiFePO₄ Battery Monitor

NCM / NCA Battery Monitor

Lead-acid / Hybrid Battery Monitor

Segmentation by Application:

Electric Vehicles

Energy Storage Systems

UPS and Industrial Batteries

Portable Devices

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Analog Devices, Inc.

Texas Instruments

NXP Semiconductors

Renesas Electronics

Infineon Technologies

STMicroelectronics

Nuvoton Technology

ROHM LAPIS Technology

Monolithic Power Systems

ABLIC Inc.

Qorvo

GigaDevice

JoulWatt

BYD Semiconductor

Chipways

SinoWealth

Key Questions Addressed in this Report

What is the 10-year outlook for the global Battery Monitor IC market?

What factors are driving Battery Monitor IC market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Battery Monitor IC market opportunities vary by end market size?

How does Battery Monitor IC break out by Cell Count, by Application?

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
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
 - 2.1.1 Global Battery Monitor IC Annual Sales 2021-2032
 - 2.1.2 World Current & Future Analysis for Battery Monitor IC by Geographic Region, 2021, 2025 & 2032
 - 2.1.3 World Current & Future Analysis for Battery Monitor IC by Country/Region, 2021, 2025 & 2032
- 2.2 Battery Monitor IC Segment by Cell Count
 - 2.2.1 1?2 Cell Monitor
 - 2.2.2 3?8 Cell Monitor
 - 2.2.3 9?16 Cell Monitor
 - 2.2.4 17?25 Cell Monitor
 - 2.2.5 Battery Monitor IC Sales by Cell Count
 - 2.2.5.1 Global Battery Monitor IC Sales Market Share by Cell Count (2021-2026)
 - 2.2.5.2 Global Battery Monitor IC Revenue and Market Share by Cell Count (2021-2026)
 - 2.2.5.3 Global Battery Monitor IC Sale Price by Cell Count (2021-2026)
- 2.3 Battery Monitor IC Segment by Communication Architecture
 - 2.3.1 Daisy-chain Communication
 - 2.3.2 Isolated UART / Transformer-based Link
 - 2.3.3 SPI / I?C Interface
 - 2.3.4 Wireless BMS Communication
 - 2.3.5 Battery Monitor IC Sales by Communication Architecture
 - 2.3.5.1 Global Battery Monitor IC Sales Market Share by Communication Architecture (2021-2026)

2.3.5.2 Global Battery Monitor IC Revenue and Market Share by Communication Architecture (2021-2026)

2.3.5.3 Global Battery Monitor IC Sale Price by Communication Architecture (2021-2026)

2.4 Battery Monitor IC Segment by Battery Chemistry

2.4.1 Sodium-ion Battery Monitor

2.4.2 LiFePO₄ Battery Monitor

2.4.3 NCM / NCA Battery Monitor

2.4.4 Lead-acid / Hybrid Battery Monitor

2.4.5 Battery Monitor IC Sales by Battery Chemistry

2.4.5.1 Global Battery Monitor IC Sales Market Share by Battery Chemistry (2021-2026)

2.4.5.2 Global Battery Monitor IC Revenue and Market Share by Battery Chemistry (2021-2026)

2.4.5.3 Global Battery Monitor IC Sale Price by Battery Chemistry (2021-2026)

2.5 Battery Monitor IC Segment by Application

2.5.1 Electric Vehicles

2.5.2 Energy Storage Systems

2.5.3 UPS and Industrial Batteries

2.5.4 Portable Devices

2.5.5 Battery Monitor IC Sales by Application

2.5.5.1 Global Battery Monitor IC Sale Market Share by Application (2021-2026)

2.5.5.2 Global Battery Monitor IC Revenue and Market Share by Application (2021-2026)

2.5.5.3 Global Battery Monitor IC Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Battery Monitor IC Breakdown Data by Company

3.1.1 Global Battery Monitor IC Annual Sales by Company (2021-2026)

3.1.2 Global Battery Monitor IC Sales Market Share by Company (2021-2026)

3.2 Global Battery Monitor IC Annual Revenue by Company (2021-2026)

3.2.1 Global Battery Monitor IC Revenue by Company (2021-2026)

3.2.2 Global Battery Monitor IC Revenue Market Share by Company (2021-2026)

3.3 Global Battery Monitor IC Sale Price by Company

3.4 Key Manufacturers Battery Monitor IC Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Battery Monitor IC Product Location Distribution

3.4.2 Players Battery Monitor IC Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR BATTERY MONITOR IC BY GEOGRAPHIC REGION

4.1 World Historic Battery Monitor IC Market Size by Geographic Region (2021-2026)

4.1.1 Global Battery Monitor IC Annual Sales by Geographic Region (2021-2026)

4.1.2 Global Battery Monitor IC Annual Revenue by Geographic Region (2021-2026)

4.2 World Historic Battery Monitor IC Market Size by Country/Region (2021-2026)

4.2.1 Global Battery Monitor IC Annual Sales by Country/Region (2021-2026)

4.2.2 Global Battery Monitor IC Annual Revenue by Country/Region (2021-2026)

4.3 Americas Battery Monitor IC Sales Growth

4.4 APAC Battery Monitor IC Sales Growth

4.5 Europe Battery Monitor IC Sales Growth

4.6 Middle East & Africa Battery Monitor IC Sales Growth

5 AMERICAS

5.1 Americas Battery Monitor IC Sales by Country

5.1.1 Americas Battery Monitor IC Sales by Country (2021-2026)

5.1.2 Americas Battery Monitor IC Revenue by Country (2021-2026)

5.2 Americas Battery Monitor IC Sales by Cell Count (2021-2026)

5.3 Americas Battery Monitor IC Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Battery Monitor IC Sales by Region

6.1.1 APAC Battery Monitor IC Sales by Region (2021-2026)

6.1.2 APAC Battery Monitor IC Revenue by Region (2021-2026)

6.2 APAC Battery Monitor IC Sales by Cell Count (2021-2026)

6.3 APAC Battery Monitor IC Sales by Application (2021-2026)

- 6.4 China
- 6.5 Japan
- 6.6 South Korea
- 6.7 Southeast Asia
- 6.8 India
- 6.9 Australia
- 6.10 China Taiwan

7 EUROPE

- 7.1 Europe Battery Monitor IC by Country
 - 7.1.1 Europe Battery Monitor IC Sales by Country (2021-2026)
 - 7.1.2 Europe Battery Monitor IC Revenue by Country (2021-2026)
- 7.2 Europe Battery Monitor IC Sales by Cell Count (2021-2026)
- 7.3 Europe Battery Monitor IC Sales by Application (2021-2026)
- 7.4 Germany
- 7.5 France
- 7.6 UK
- 7.7 Italy
- 7.8 Russia

8 MIDDLE EAST & AFRICA

- 8.1 Middle East & Africa Battery Monitor IC by Country
 - 8.1.1 Middle East & Africa Battery Monitor IC Sales by Country (2021-2026)
 - 8.1.2 Middle East & Africa Battery Monitor IC Revenue by Country (2021-2026)
- 8.2 Middle East & Africa Battery Monitor IC Sales by Cell Count (2021-2026)
- 8.3 Middle East & Africa Battery Monitor IC Sales by Application (2021-2026)
- 8.4 Egypt
- 8.5 South Africa
- 8.6 Israel
- 8.7 Turkey
- 8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

- 9.1 Market Drivers & Growth Opportunities
- 9.2 Market Challenges & Risks
- 9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

- 10.1 Raw Material and Suppliers
- 10.2 Manufacturing Cost Structure Analysis of Battery Monitor IC
- 10.3 Manufacturing Process Analysis of Battery Monitor IC
- 10.4 Industry Chain Structure of Battery Monitor IC

11 MARKETING, DISTRIBUTORS AND CUSTOMER

- 11.1 Sales Channel
 - 11.1.1 Direct Channels
 - 11.1.2 Indirect Channels
- 11.2 Battery Monitor IC Distributors
- 11.3 Battery Monitor IC Customer

12 WORLD FORECAST REVIEW FOR BATTERY MONITOR IC BY GEOGRAPHIC REGION

- 12.1 Global Battery Monitor IC Market Size Forecast by Region
 - 12.1.1 Global Battery Monitor IC Forecast by Region (2027-2032)
 - 12.1.2 Global Battery Monitor IC Annual Revenue Forecast by Region (2027-2032)
- 12.2 Americas Forecast by Country (2027-2032)
- 12.3 APAC Forecast by Region (2027-2032)
- 12.4 Europe Forecast by Country (2027-2032)
- 12.5 Middle East & Africa Forecast by Country (2027-2032)
- 12.6 Global Battery Monitor IC Forecast by Cell Count (2027-2032)
- 12.7 Global Battery Monitor IC Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

- 13.1 Analog Devices, Inc.
 - 13.1.1 Analog Devices, Inc. Company Information
 - 13.1.2 Analog Devices, Inc. Battery Monitor IC Product Portfolios and Specifications
 - 13.1.3 Analog Devices, Inc. Battery Monitor IC Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.1.4 Analog Devices, Inc. Main Business Overview
 - 13.1.5 Analog Devices, Inc. Latest Developments
- 13.2 Texas Instruments

- 13.2.1 Texas Instruments Company Information
- 13.2.2 Texas Instruments Battery Monitor IC Product Portfolios and Specifications
- 13.2.3 Texas Instruments Battery Monitor IC Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.2.4 Texas Instruments Main Business Overview
- 13.2.5 Texas Instruments Latest Developments
- 13.3 NXP Semiconductors
 - 13.3.1 NXP Semiconductors Company Information
 - 13.3.2 NXP Semiconductors Battery Monitor IC Product Portfolios and Specifications
 - 13.3.3 NXP Semiconductors Battery Monitor IC Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.3.4 NXP Semiconductors Main Business Overview
 - 13.3.5 NXP Semiconductors Latest Developments
- 13.4 Renesas Electronics
 - 13.4.1 Renesas Electronics Company Information
 - 13.4.2 Renesas Electronics Battery Monitor IC Product Portfolios and Specifications
 - 13.4.3 Renesas Electronics Battery Monitor IC Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.4.4 Renesas Electronics Main Business Overview
 - 13.4.5 Renesas Electronics Latest Developments
- 13.5 Infineon Technologies
 - 13.5.1 Infineon Technologies Company Information
 - 13.5.2 Infineon Technologies Battery Monitor IC Product Portfolios and Specifications
 - 13.5.3 Infineon Technologies Battery Monitor IC Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.5.4 Infineon Technologies Main Business Overview
 - 13.5.5 Infineon Technologies Latest Developments
- 13.6 STMicroelectronics
 - 13.6.1 STMicroelectronics Company Information
 - 13.6.2 STMicroelectronics Battery Monitor IC Product Portfolios and Specifications
 - 13.6.3 STMicroelectronics Battery Monitor IC Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.6.4 STMicroelectronics Main Business Overview
 - 13.6.5 STMicroelectronics Latest Developments
- 13.7 Nuvoton Technology
 - 13.7.1 Nuvoton Technology Company Information
 - 13.7.2 Nuvoton Technology Battery Monitor IC Product Portfolios and Specifications
 - 13.7.3 Nuvoton Technology Battery Monitor IC Sales, Revenue, Price and Gross Margin (2021-2026)

- 13.7.4 Nuvoton Technology Main Business Overview
- 13.7.5 Nuvoton Technology Latest Developments
- 13.8 ROHM LAPIS Technology
 - 13.8.1 ROHM LAPIS Technology Company Information
 - 13.8.2 ROHM LAPIS Technology Battery Monitor IC Product Portfolios and Specifications
 - 13.8.3 ROHM LAPIS Technology Battery Monitor IC Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.8.4 ROHM LAPIS Technology Main Business Overview
 - 13.8.5 ROHM LAPIS Technology Latest Developments
- 13.9 Monolithic Power Systems
 - 13.9.1 Monolithic Power Systems Company Information
 - 13.9.2 Monolithic Power Systems Battery Monitor IC Product Portfolios and Specifications
 - 13.9.3 Monolithic Power Systems Battery Monitor IC Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.9.4 Monolithic Power Systems Main Business Overview
 - 13.9.5 Monolithic Power Systems Latest Developments
- 13.10 ABLIC Inc.
 - 13.10.1 ABLIC Inc. Company Information
 - 13.10.2 ABLIC Inc. Battery Monitor IC Product Portfolios and Specifications
 - 13.10.3 ABLIC Inc. Battery Monitor IC Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.10.4 ABLIC Inc. Main Business Overview
 - 13.10.5 ABLIC Inc. Latest Developments
- 13.11 Qorvo
 - 13.11.1 Qorvo Company Information
 - 13.11.2 Qorvo Battery Monitor IC Product Portfolios and Specifications
 - 13.11.3 Qorvo Battery Monitor IC Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.11.4 Qorvo Main Business Overview
 - 13.11.5 Qorvo Latest Developments
- 13.12 GigaDevice
 - 13.12.1 GigaDevice Company Information
 - 13.12.2 GigaDevice Battery Monitor IC Product Portfolios and Specifications
 - 13.12.3 GigaDevice Battery Monitor IC Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.12.4 GigaDevice Main Business Overview
 - 13.12.5 GigaDevice Latest Developments

13.13 JoulWatt

13.13.1 JoulWatt Company Information

13.13.2 JoulWatt Battery Monitor IC Product Portfolios and Specifications

13.13.3 JoulWatt Battery Monitor IC Sales, Revenue, Price and Gross Margin

(2021-2026)

13.13.4 JoulWatt Main Business Overview

13.13.5 JoulWatt Latest Developments

13.14 BYD Semiconductor

13.14.1 BYD Semiconductor Company Information

13.14.2 BYD Semiconductor Battery Monitor IC Product Portfolios and Specifications

13.14.3 BYD Semiconductor Battery Monitor IC Sales, Revenue, Price and Gross

Margin (2021-2026)

13.14.4 BYD Semiconductor Main Business Overview

13.14.5 BYD Semiconductor Latest Developments

13.15 Chipways

13.15.1 Chipways Company Information

13.15.2 Chipways Battery Monitor IC Product Portfolios and Specifications

13.15.3 Chipways Battery Monitor IC Sales, Revenue, Price and Gross Margin

(2021-2026)

13.15.4 Chipways Main Business Overview

13.15.5 Chipways Latest Developments

13.16 SinoWealth

13.16.1 SinoWealth Company Information

13.16.2 SinoWealth Battery Monitor IC Product Portfolios and Specifications

13.16.3 SinoWealth Battery Monitor IC Sales, Revenue, Price and Gross Margin

(2021-2026)

13.16.4 SinoWealth Main Business Overview

13.16.5 SinoWealth Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

- Table 1. Battery Monitor IC Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Table 2. Battery Monitor IC Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)
- Table 3. Major Players of 1?2 Cell Monitor
- Table 4. Major Players of 3?8 Cell Monitor
- Table 5. Major Players of 9?16 Cell Monitor
- Table 6. Major Players of 17?25 Cell Monitor
- Table 7. Global Battery Monitor IC Sales by Cell Count (2021-2026) & (Units)
- Table 8. Global Battery Monitor IC Sales Market Share by Cell Count (2021-2026)
- Table 9. Global Battery Monitor IC Revenue by Cell Count (2021-2026) & (\$ million)
- Table 10. Global Battery Monitor IC Revenue Market Share by Cell Count (2021-2026)
- Table 11. Global Battery Monitor IC Sale Price by Cell Count (2021-2026) & (US\$/Unit)
- Table 12. Major Players of Daisy-chain Communication
- Table 13. Major Players of Isolated UART / Transformer-based Link
- Table 14. Major Players of SPI / I?C Interface
- Table 15. Major Players of Wireless BMS Communication
- Table 16. Global Battery Monitor IC Sales by Communication Architecture (2021-2026) & (Units)
- Table 17. Global Battery Monitor IC Sales Market Share by Communication Architecture (2021-2026)
- Table 18. Global Battery Monitor IC Revenue by Communication Architecture (2021-2026) & (\$ million)
- Table 19. Global Battery Monitor IC Revenue Market Share by Communication Architecture (2021-2026)
- Table 20. Global Battery Monitor IC Sale Price by Communication Architecture (2021-2026) & (US\$/Unit)
- Table 21. Major Players of Sodium-ion Battery Monitor
- Table 22. Major Players of LiFePO? Battery Monitor
- Table 23. Major Players of NCM / NCA Battery Monitor
- Table 24. Major Players of Lead-acid / Hybrid Battery Monitor
- Table 25. Global Battery Monitor IC Sales by Battery Chemistry (2021-2026) & (Units)
- Table 26. Global Battery Monitor IC Sales Market Share by Battery Chemistry (2021-2026)
- Table 27. Global Battery Monitor IC Revenue by Battery Chemistry (2021-2026) & (\$

million)

Table 28. Global Battery Monitor IC Revenue Market Share by Battery Chemistry (2021-2026)

Table 29. Global Battery Monitor IC Sale Price by Battery Chemistry (2021-2026) & (US\$/Unit)

Table 30. Global Battery Monitor IC Sale by Application (2021-2026) & (Units)

Table 31. Global Battery Monitor IC Sale Market Share by Application (2021-2026)

Table 32. Global Battery Monitor IC Revenue by Application (2021-2026) & (\$ million)

Table 33. Global Battery Monitor IC Revenue Market Share by Application (2021-2026)

Table 34. Global Battery Monitor IC Sale Price by Application (2021-2026) & (US\$/Unit)

Table 35. Global Battery Monitor IC Sales by Company (2021-2026) & (Units)

Table 36. Global Battery Monitor IC Sales Market Share by Company (2021-2026)

Table 37. Global Battery Monitor IC Revenue by Company (2021-2026) & (\$ millions)

Table 38. Global Battery Monitor IC Revenue Market Share by Company (2021-2026)

Table 39. Global Battery Monitor IC Sale Price by Company (2021-2026) & (US\$/Unit)

Table 40. Key Manufacturers Battery Monitor IC Producing Area Distribution and Sales Area

Table 41. Players Battery Monitor IC Products Offered

Table 42. Battery Monitor IC Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 43. New Products and Potential Entrants

Table 44. Market M&A Activity & Strategy

Table 45. Global Battery Monitor IC Sales by Geographic Region (2021-2026) & (Units)

Table 46. Global Battery Monitor IC Sales Market Share Geographic Region (2021-2026)

Table 47. Global Battery Monitor IC Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 48. Global Battery Monitor IC Revenue Market Share by Geographic Region (2021-2026)

Table 49. Global Battery Monitor IC Sales by Country/Region (2021-2026) & (Units)

Table 50. Global Battery Monitor IC Sales Market Share by Country/Region (2021-2026)

Table 51. Global Battery Monitor IC Revenue by Country/Region (2021-2026) & (\$ millions)

Table 52. Global Battery Monitor IC Revenue Market Share by Country/Region (2021-2026)

Table 53. Americas Battery Monitor IC Sales by Country (2021-2026) & (Units)

Table 54. Americas Battery Monitor IC Sales Market Share by Country (2021-2026)

Table 55. Americas Battery Monitor IC Revenue by Country (2021-2026) & (\$ millions)

Table 56. Americas Battery Monitor IC Sales by Cell Count (2021-2026) & (Units)

Table 57. Americas Battery Monitor IC Sales by Application (2021-2026) & (Units)
Table 58. APAC Battery Monitor IC Sales by Region (2021-2026) & (Units)
Table 59. APAC Battery Monitor IC Sales Market Share by Region (2021-2026)
Table 60. APAC Battery Monitor IC Revenue by Region (2021-2026) & (\$ millions)
Table 61. APAC Battery Monitor IC Sales by Cell Count (2021-2026) & (Units)
Table 62. APAC Battery Monitor IC Sales by Application (2021-2026) & (Units)
Table 63. Europe Battery Monitor IC Sales by Country (2021-2026) & (Units)
Table 64. Europe Battery Monitor IC Revenue by Country (2021-2026) & (\$ millions)
Table 65. Europe Battery Monitor IC Sales by Cell Count (2021-2026) & (Units)
Table 66. Europe Battery Monitor IC Sales by Application (2021-2026) & (Units)
Table 67. Middle East & Africa Battery Monitor IC Sales by Country (2021-2026) & (Units)
Table 68. Middle East & Africa Battery Monitor IC Revenue Market Share by Country (2021-2026)
Table 69. Middle East & Africa Battery Monitor IC Sales by Cell Count (2021-2026) & (Units)
Table 70. Middle East & Africa Battery Monitor IC Sales by Application (2021-2026) & (Units)
Table 71. Key Market Drivers & Growth Opportunities of Battery Monitor IC
Table 72. Key Market Challenges & Risks of Battery Monitor IC
Table 73. Key Industry Trends of Battery Monitor IC
Table 74. Battery Monitor IC Raw Material
Table 75. Key Suppliers of Raw Materials
Table 76. Battery Monitor IC Distributors List
Table 77. Battery Monitor IC Customer List
Table 78. Global Battery Monitor IC Sales Forecast by Region (2027-2032) & (Units)
Table 79. Global Battery Monitor IC Revenue Forecast by Region (2027-2032) & (\$ millions)
Table 80. Americas Battery Monitor IC Sales Forecast by Country (2027-2032) & (Units)
Table 81. Americas Battery Monitor IC Annual Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 82. APAC Battery Monitor IC Sales Forecast by Region (2027-2032) & (Units)
Table 83. APAC Battery Monitor IC Annual Revenue Forecast by Region (2027-2032) & (\$ millions)
Table 84. Europe Battery Monitor IC Sales Forecast by Country (2027-2032) & (Units)
Table 85. Europe Battery Monitor IC Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 86. Middle East & Africa Battery Monitor IC Sales Forecast by Country (2027-2032) & (Units)

Table 87. Middle East & Africa Battery Monitor IC Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 88. Global Battery Monitor IC Sales Forecast by Cell Count (2027-2032) & (Units)

Table 89. Global Battery Monitor IC Revenue Forecast by Cell Count (2027-2032) & (\$ millions)

Table 90. Global Battery Monitor IC Sales Forecast by Application (2027-2032) & (Units)

Table 91. Global Battery Monitor IC Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 92. Analog Devices, Inc. Basic Information, Battery Monitor IC Manufacturing Base, Sales Area and Its Competitors

Table 93. Analog Devices, Inc. Battery Monitor IC Product Portfolios and Specifications

Table 94. Analog Devices, Inc. Battery Monitor IC Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 95. Analog Devices, Inc. Main Business

Table 96. Analog Devices, Inc. Latest Developments

Table 97. Texas Instruments Basic Information, Battery Monitor IC Manufacturing Base, Sales Area and Its Competitors

Table 98. Texas Instruments Battery Monitor IC Product Portfolios and Specifications

Table 99. Texas Instruments Battery Monitor IC Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 100. Texas Instruments Main Business

Table 101. Texas Instruments Latest Developments

Table 102. NXP Semiconductors Basic Information, Battery Monitor IC Manufacturing Base, Sales Area and Its Competitors

Table 103. NXP Semiconductors Battery Monitor IC Product Portfolios and Specifications

Table 104. NXP Semiconductors Battery Monitor IC Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 105. NXP Semiconductors Main Business

Table 106. NXP Semiconductors Latest Developments

Table 107. Renesas Electronics Basic Information, Battery Monitor IC Manufacturing Base, Sales Area and Its Competitors

Table 108. Renesas Electronics Battery Monitor IC Product Portfolios and Specifications

Table 109. Renesas Electronics Battery Monitor IC Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 110. Renesas Electronics Main Business

Table 111. Renesas Electronics Latest Developments

Table 112. Infineon Technologies Basic Information, Battery Monitor IC Manufacturing Base, Sales Area and Its Competitors

Table 113. Infineon Technologies Battery Monitor IC Product Portfolios and Specifications

Table 114. Infineon Technologies Battery Monitor IC Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 115. Infineon Technologies Main Business

Table 116. Infineon Technologies Latest Developments

Table 117. STMicroelectronics Basic Information, Battery Monitor IC Manufacturing Base, Sales Area and Its Competitors

Table 118. STMicroelectronics Battery Monitor IC Product Portfolios and Specifications

Table 119. STMicroelectronics Battery Monitor IC Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 120. STMicroelectronics Main Business

Table 121. STMicroelectronics Latest Developments

Table 122. Nuvoton Technology Basic Information, Battery Monitor IC Manufacturing Base, Sales Area and Its Competitors

Table 123. Nuvoton Technology Battery Monitor IC Product Portfolios and Specifications

Table 124. Nuvoton Technology Battery Monitor IC Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 125. Nuvoton Technology Main Business

Table 126. Nuvoton Technology Latest Developments

Table 127. ROHM LAPIS Technology Basic Information, Battery Monitor IC Manufacturing Base, Sales Area and Its Competitors

Table 128. ROHM LAPIS Technology Battery Monitor IC Product Portfolios and Specifications

Table 129. ROHM LAPIS Technology Battery Monitor IC Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 130. ROHM LAPIS Technology Main Business

Table 131. ROHM LAPIS Technology Latest Developments

Table 132. Monolithic Power Systems Basic Information, Battery Monitor IC Manufacturing Base, Sales Area and Its Competitors

Table 133. Monolithic Power Systems Battery Monitor IC Product Portfolios and Specifications

Table 134. Monolithic Power Systems Battery Monitor IC Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 135. Monolithic Power Systems Main Business

Table 136. Monolithic Power Systems Latest Developments

Table 137. ABLIC Inc. Basic Information, Battery Monitor IC Manufacturing Base, Sales Area and Its Competitors

Table 138. ABLIC Inc. Battery Monitor IC Product Portfolios and Specifications

Table 139. ABLIC Inc. Battery Monitor IC Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 140. ABLIC Inc. Main Business

Table 141. ABLIC Inc. Latest Developments

Table 142. Qorvo Basic Information, Battery Monitor IC Manufacturing Base, Sales Area and Its Competitors

Table 143. Qorvo Battery Monitor IC Product Portfolios and Specifications

Table 144. Qorvo Battery Monitor IC Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 145. Qorvo Main Business

Table 146. Qorvo Latest Developments

Table 147. GigaDevice Basic Information, Battery Monitor IC Manufacturing Base, Sales Area and Its Competitors

Table 148. GigaDevice Battery Monitor IC Product Portfolios and Specifications

Table 149. GigaDevice Battery Monitor IC Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 150. GigaDevice Main Business

Table 151. GigaDevice Latest Developments

Table 152. JoulWatt Basic Information, Battery Monitor IC Manufacturing Base, Sales Area and Its Competitors

Table 153. JoulWatt Battery Monitor IC Product Portfolios and Specifications

Table 154. JoulWatt Battery Monitor IC Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 155. JoulWatt Main Business

Table 156. JoulWatt Latest Developments

Table 157. BYD Semiconductor Basic Information, Battery Monitor IC Manufacturing Base, Sales Area and Its Competitors

Table 158. BYD Semiconductor Battery Monitor IC Product Portfolios and Specifications

Table 159. BYD Semiconductor Battery Monitor IC Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 160. BYD Semiconductor Main Business

Table 161. BYD Semiconductor Latest Developments

Table 162. Chipways Basic Information, Battery Monitor IC Manufacturing Base, Sales Area and Its Competitors

Table 163. Chipways Battery Monitor IC Product Portfolios and Specifications

Table 164. Chipways Battery Monitor IC Sales (Units), Revenue (\$ Million), Price

(US\$/Unit) and Gross Margin (2021-2026)

Table 165. Chipways Main Business

Table 166. Chipways Latest Developments

Table 167. SinoWealth Basic Information, Battery Monitor IC Manufacturing Base, Sales Area and Its Competitors

Table 168. SinoWealth Battery Monitor IC Product Portfolios and Specifications

Table 169. SinoWealth Battery Monitor IC Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 170. SinoWealth Main Business

Table 171. SinoWealth Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Battery Monitor IC
- Figure 2. Battery Monitor IC Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Battery Monitor IC Sales Growth Rate 2021-2032 (Units)
- Figure 7. Global Battery Monitor IC Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Battery Monitor IC Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Battery Monitor IC Sales Market Share by Country/Region (2025)
- Figure 10. Battery Monitor IC Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of 1?2 Cell Monitor
- Figure 12. Product Picture of 3?8 Cell Monitor
- Figure 13. Product Picture of 9?16 Cell Monitor
- Figure 14. Product Picture of 17?25 Cell Monitor
- Figure 15. Global Battery Monitor IC Sales Market Share by Cell Count in 2026
- Figure 16. Global Battery Monitor IC Revenue Market Share by Cell Count (2021-2026)
- Figure 17. Product Picture of Daisy-chain Communication
- Figure 18. Product Picture of Isolated UART / Transformer-based Link
- Figure 19. Product Picture of SPI / I?C Interface
- Figure 20. Product Picture of Wireless BMS Communication
- Figure 21. Global Battery Monitor IC Sales Market Share by Communication Architecture in 2026
- Figure 22. Global Battery Monitor IC Revenue Market Share by Communication Architecture (2021-2026)
- Figure 23. Product Picture of Sodium-ion Battery Monitor
- Figure 24. Product Picture of LiFePO? Battery Monitor
- Figure 25. Product Picture of NCM / NCA Battery Monitor
- Figure 26. Product Picture of Lead-acid / Hybrid Battery Monitor
- Figure 27. Global Battery Monitor IC Sales Market Share by Battery Chemistry in 2026
- Figure 28. Global Battery Monitor IC Revenue Market Share by Battery Chemistry (2021-2026)
- Figure 29. Battery Monitor IC Consumed in Electric Vehicles
- Figure 30. Global Battery Monitor IC Market: Electric Vehicles (2021-2026) & (Units)

Figure 31. Battery Monitor IC Consumed in Energy Storage Systems

Figure 32. Global Battery Monitor IC Market: Energy Storage Systems (2021-2026) & (Units)

Figure 33. Battery Monitor IC Consumed in UPS and Industrial Batteries

Figure 34. Global Battery Monitor IC Market: UPS and Industrial Batteries (2021-2026) & (Units)

Figure 35. Battery Monitor IC Consumed in Portable Devices

Figure 36. Global Battery Monitor IC Market: Portable Devices (2021-2026) & (Units)

Figure 37. Global Battery Monitor IC Sale Market Share by Application (2025)

Figure 38. Global Battery Monitor IC Revenue Market Share by Application in 2025

Figure 39. Battery Monitor IC Sales by Company in 2025 (Units)

Figure 40. Global Battery Monitor IC Sales Market Share by Company in 2025

Figure 41. Battery Monitor IC Revenue by Company in 2025 (\$ millions)

Figure 42. Global Battery Monitor IC Revenue Market Share by Company in 2025

Figure 43. Global Battery Monitor IC Sales Market Share by Geographic Region (2021-2026)

Figure 44. Global Battery Monitor IC Revenue Market Share by Geographic Region in 2025

Figure 45. Americas Battery Monitor IC Sales 2021-2026 (Units)

Figure 46. Americas Battery Monitor IC Revenue 2021-2026 (\$ millions)

Figure 47. APAC Battery Monitor IC Sales 2021-2026 (Units)

Figure 48. APAC Battery Monitor IC Revenue 2021-2026 (\$ millions)

Figure 49. Europe Battery Monitor IC Sales 2021-2026 (Units)

Figure 50. Europe Battery Monitor IC Revenue 2021-2026 (\$ millions)

Figure 51. Middle East & Africa Battery Monitor IC Sales 2021-2026 (Units)

Figure 52. Middle East & Africa Battery Monitor IC Revenue 2021-2026 (\$ millions)

Figure 53. Americas Battery Monitor IC Sales Market Share by Country in 2025

Figure 54. Americas Battery Monitor IC Revenue Market Share by Country (2021-2026)

Figure 55. Americas Battery Monitor IC Sales Market Share by Cell Count (2021-2026)

Figure 56. Americas Battery Monitor IC Sales Market Share by Application (2021-2026)

Figure 57. United States Battery Monitor IC Revenue Growth 2021-2026 (\$ millions)

Figure 58. Canada Battery Monitor IC Revenue Growth 2021-2026 (\$ millions)

Figure 59. Mexico Battery Monitor IC Revenue Growth 2021-2026 (\$ millions)

Figure 60. Brazil Battery Monitor IC Revenue Growth 2021-2026 (\$ millions)

Figure 61. APAC Battery Monitor IC Sales Market Share by Region in 2025

Figure 62. APAC Battery Monitor IC Revenue Market Share by Region (2021-2026)

Figure 63. APAC Battery Monitor IC Sales Market Share by Cell Count (2021-2026)

Figure 64. APAC Battery Monitor IC Sales Market Share by Application (2021-2026)

Figure 65. China Battery Monitor IC Revenue Growth 2021-2026 (\$ millions)

- Figure 66. Japan Battery Monitor IC Revenue Growth 2021-2026 (\$ millions)
- Figure 67. South Korea Battery Monitor IC Revenue Growth 2021-2026 (\$ millions)
- Figure 68. Southeast Asia Battery Monitor IC Revenue Growth 2021-2026 (\$ millions)
- Figure 69. India Battery Monitor IC Revenue Growth 2021-2026 (\$ millions)
- Figure 70. Australia Battery Monitor IC Revenue Growth 2021-2026 (\$ millions)
- Figure 71. China Taiwan Battery Monitor IC Revenue Growth 2021-2026 (\$ millions)
- Figure 72. Europe Battery Monitor IC Sales Market Share by Country in 2025
- Figure 73. Europe Battery Monitor IC Revenue Market Share by Country (2021-2026)
- Figure 74. Europe Battery Monitor IC Sales Market Share by Cell Count (2021-2026)
- Figure 75. Europe Battery Monitor IC Sales Market Share by Application (2021-2026)
- Figure 76. Germany Battery Monitor IC Revenue Growth 2021-2026 (\$ millions)
- Figure 77. France Battery Monitor IC Revenue Growth 2021-2026 (\$ millions)
- Figure 78. UK Battery Monitor IC Revenue Growth 2021-2026 (\$ millions)
- Figure 79. Italy Battery Monitor IC Revenue Growth 2021-2026 (\$ millions)
- Figure 80. Russia Battery Monitor IC Revenue Growth 2021-2026 (\$ millions)
- Figure 81. Middle East & Africa Battery Monitor IC Sales Market Share by Country (2021-2026)
- Figure 82. Middle East & Africa Battery Monitor IC Sales Market Share by Cell Count (2021-2026)
- Figure 83. Middle East & Africa Battery Monitor IC Sales Market Share by Application (2021-2026)
- Figure 84. Egypt Battery Monitor IC Revenue Growth 2021-2026 (\$ millions)
- Figure 85. South Africa Battery Monitor IC Revenue Growth 2021-2026 (\$ millions)
- Figure 86. Israel Battery Monitor IC Revenue Growth 2021-2026 (\$ millions)
- Figure 87. Turkey Battery Monitor IC Revenue Growth 2021-2026 (\$ millions)
- Figure 88. GCC Countries Battery Monitor IC Revenue Growth 2021-2026 (\$ millions)
- Figure 89. Manufacturing Cost Structure Analysis of Battery Monitor IC in 2026
- Figure 90. Manufacturing Process Analysis of Battery Monitor IC
- Figure 91. Industry Chain Structure of Battery Monitor IC
- Figure 92. Channels of Distribution
- Figure 93. Global Battery Monitor IC Sales Market Forecast by Region (2027-2032)
- Figure 94. Global Battery Monitor IC Revenue Market Share Forecast by Region (2027-2032)
- Figure 95. Global Battery Monitor IC Sales Market Share Forecast by Cell Count (2027-2032)
- Figure 96. Global Battery Monitor IC Revenue Market Share Forecast by Cell Count (2027-2032)
- Figure 97. Global Battery Monitor IC Sales Market Share Forecast by Application (2027-2032)

Figure 98. Global Battery Monitor IC Revenue Market Share Forecast by Application
(2027-2032)

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