

Global Lithium-Ion Battery ICs Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Lithium-Ion Battery ICs market size was valued at US\$ 3558 million in 2024 and is forecast to a readjusted size of USD 4460 million by 2031 with a CAGR of 3.3% during review period.

Lithium-ion battery integrated circuits (ICs) are essential components in the management and operation of lithium-ion batteries, which are widely used in smart phone, notebook/tablet PC, AV equipment, power tools, electric vehicles, renewable energy storage systems, and more. These ICs are designed to monitor, control, and enhance the performance and safety of lithium-ion battery systems.

The ICs used in lithium-ion battery systems can be categorized into several types, each serving specific functions:

a. Battery Management System (BMS) ICs

Function: Monitor cell voltage, temperature, and current to ensure safe operation. They manage charging and discharging cycles while balancing cells to maintain optimal performance.

Example Features: Over-voltage protection, under-voltage protection, temperature monitoring, and cell balancing.

b. Charge Management ICs

Function: Control the charging process of lithium-ion batteries, including the selection of

charge profiles (constant current/constant voltage).

Example Features: Supports multiple charging methods (USB, wall adapter, etc.), programmable charge rates, and safety mechanisms.

c. Fuel Gauge ICs

Function: Accurately measure the state of charge (SoC) and state of health (SoH) of the battery, providing real-time data on the remaining capacity.

Example Features: Integrated algorithms for estimating battery life and usage statistics.

d. Protection ICs

Function: Provide protection against over-current, over-voltage, short-circuit conditions, and thermal runaway.

Example Features: Automatic shutdown triggers, fault reporting, and reset functions.

This report is a detailed and comprehensive analysis for global Lithium-Ion Battery ICs 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 Lithium-Ion Battery ICs market size and forecasts, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2020-2031

Global Lithium-Ion Battery ICs market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2020-2031

Global Lithium-Ion Battery ICs market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2020-2031

Global Lithium-Ion Battery ICs market shares of main players, shipments in revenue (\$ Million), sales quantity (Million Units), and ASP (US\$/Unit), 2020-2025

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 Lithium-Ion Battery ICs
- To forecast future growth in each product and end-use market
- To forecast future factors affecting the marketplace

This report profiles key players in the global Lithium-Ion Battery ICs 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 MinebeaMitsumi, Texas Instruments (TI), NXP, Infineon, Analog Devices, MediaTek, STMicroelectronics, Renesas Electronics, SG Micro Corp (SGMICRO), Guangdong Cellwise Microelectronics, etc.

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

Market Segmentation

Lithium-Ion Battery ICs market is split by Type and by Application. For the period 2020-2031, 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

Single Cell

Multi-Cell

Market segment by Application

Smartphone

Laptop and Tablet PC

Wearable Device

Smart Home

Power Tool

Electric Vehicle

Energy Storage System

Others

Major players covered

MinebeaMitsumi

Texas Instruments (TI)

NXP

Infineon

Analog Devices

MediaTek

STMicroelectronics

Renesas Electronics

SG Micro Corp (SGMICRO)

Guangdong Cellwise Microelectronics

Rohm

Ricoh

Diodes Incorporated

Torex Semiconductor

Nisshinbo

3Peak

Hycon Technology

Shenzhen Developer Microelectronics

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 Lithium-Ion Battery ICs product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Lithium-Ion Battery ICs, with price, sales quantity, revenue, and global market share of Lithium-Ion Battery ICs from 2020 to 2025.

Chapter 3, the Lithium-Ion Battery ICs competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Lithium-Ion Battery ICs breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

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 2020 to 2031.

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 2020 to 2025. and Lithium-Ion Battery ICs market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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 Lithium-Ion Battery ICs.

Chapter 14 and 15, to describe Lithium-Ion Battery ICs sales channel, distributors, customers, research findings and conclusion.

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