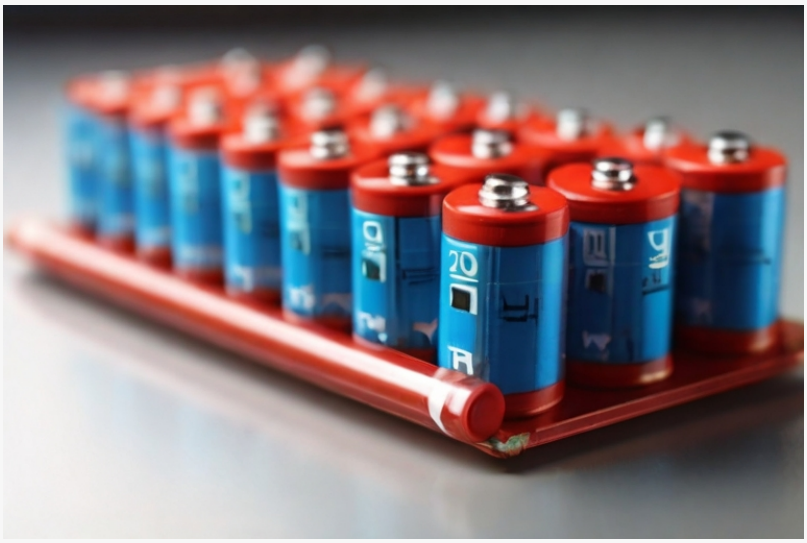
Micro Battery Market Size to Hit US$ 1347 Million by 2032 | Grow CAGR by 21.4%

A micro battery is a small-scale energy storage device that supplies power to miniature electronic components and systems.



Micro Battery Market Report

NEW YORK, BROOKLYN, UNITED STATE, March 5, 2024 /EINPresswire.com/ -- The latest report by IMARC Group, titled “Micro Battery Market Report by Type (Thin Film Battery, Printed Battery, Solid State Chip Battery, Button Batteries), Capacity (Below 10mAh, Between 10 mAh to 100 mAh, Above 100 mAh), Rechargeability (Primary Battery, Secondary Battery), Application (Consumer Electronics, Medical Devices, Smart Packaging, Smart Cards, Wearable Devices, Wireless Sensor Nodes, and Others), and Region 2024-2032“, The global micro battery market size reached US$ 412 Million in 2023. Looking forward, IMARC Group expects the market to reach US$ 1347 Million by 2032, exhibiting a growth rate (CAGR) of 21.4% during 2024-2032.

For an in-depth analysis, you can refer sample copy of the report:
https://www.imarcgroup.com/micro-battery-market/requestsample

Factors Affecting the Growth of Micro Battery Industry:

- Significant Technological Advancements in Wearable Devices:

The rise of wearable technology, such as smartwatches, fitness trackers, and medical devices, has fueled the demand for micro batteries. These devices require compact and lightweight power sources to ensure prolonged usage without compromising on functionality. Technological advancements in the design and manufacturing of micro batteries have been instrumental in meeting these demands. Manufacturers are constantly striving to enhance the energy density, charging efficiency, and durability of micro batteries to support the evolving needs of wearable devices. For instance, the development of solid-state batteries offers higher energy density and improved safety compared to traditional lithium-ion batteries, making them ideal for compact wearable gadgets. Additionally, innovations in flexible and stretchable battery technologies

enable seamless integration into wearable electronics, enhancing user comfort and device aesthetics. The continuous progress in micro battery technology is expanding the capabilities of wearable devices and also opening up new opportunities in the consumer electronics market.

• Miniaturization Trend in Consumer Electronics:
The miniaturization trend in consumer electronics, driven by consumers' desire for sleeker and more portable devices, has significantly contributed to the growth of the micro battery market. Mobile phones, wireless earbuds, and portable gaming consoles are becoming increasingly compact, necessitating power sources that can fit into smaller form factors without sacrificing performance. Micro batteries offer a viable solution to this challenge by providing high energy density in a compact footprint. Manufacturers are leveraging advancements in battery chemistry, such as lithium-polymer and lithium-ion, to develop ultra-thin and lightweight batteries that can power a wide range of portable electronic devices. Moreover, the integration of micro batteries enables manufacturers to design gadgets with streamlined profiles and improved ergonomics, enhancing the overall user experience. As the demand for smaller and more efficient consumer electronics continues to grow, the micro battery market is poised for further expansion.

• Increasing Adoption of Internet of Things (IoT) Devices:
The proliferation of Internet of Things (IoT) devices across various industries, including healthcare, automotive, and smart home systems, is driving the demand for micro batteries. IoT devices rely on wireless connectivity and sensors to collect and transmit data, necessitating energy-efficient power sources to support continuous operation. Micro batteries offer the ideal solution for powering these compact and often wireless devices, providing reliable energy storage in constrained spaces. Furthermore, advancements in energy harvesting technologies, such as solar cells and kinetic energy harvesters, complement the capabilities of micro batteries by enabling self-powered IoT devices with extended battery life.

Competitive Landscape with Key Player:
- Duracell Inc. (Berkshire Hathaway)
- ITEN
- Maxell Ltd.
- Murata Manufacturing Co. Ltd.
- Panasonic Corporation
- Renata SA (The Swatch Group)
- Seiko Instruments Inc. (Seiko Group Corporation)
- TDK Corporation
- Ultralife Corporation
- Varta AG (Montana Tech Components)

Report Segmentation:
The report has segmented the market into the following categories:
Breakup by Type:
- Thin Film Battery

- Printed Battery
- Solid State Chip Battery
- Button Batteries

Solid state chip battery dominates the market due to its superior energy density, safety features, and suitability for a wide range of applications, including wearable electronics, IoT devices, and medical implants.

Breakup by Capacity:
- Below 10 mAh
- Between 10 mAh to 100 mAh
- Above 100 mAh

Between 10 mAh to 100 mAh represents the largest segment due to its versatility in powering a wide range of small-scale electronic devices, including wearables, IoT sensors, and portable consumer electronics.

Breakup by Rechargeability:
- Primary Battery
- Secondary Battery

Secondary battery holds maximum number of shares due to their ability to be recharged multiple times, providing long-term usage and cost-effectiveness for a wide range of applications.

Breakup by Application:
- Consumer Electronics
- Medical Devices
- Smart Packaging
- Smart Cards
- Wearable Devices
- Wireless Sensor Nodes
- Others

Consumer electronics dominate the market due to the widespread adoption of portable gadgets, such as smartphones, tablets, and wearables, which rely heavily on compact and high-performance micro batteries.

Explore Full Report with Table of Contents: https://www.imarcgroup.com/micro-battery-market

Market Breakup by Region:
- North America (United States, Canada)
- Asia Pacific (China, Japan, India, South Korea, Australia, Indonesia, Others)
- Europe (Germany, France, United Kingdom, Italy, Spain, Russia, Others)
- Latin America (Brazil, Mexico, Others)
- Middle East and Africa

Asia Pacific's dominance in the micro battery market is attributed to the robust manufacturing

ecosystem of the region, high demand for consumer electronics, and significant investments in emerging technologies.

Global Micro Battery Market Trends:
The increasing adoption of electric vehicles (EVs) and hybrid vehicles is driving the demand for micro batteries in the automotive sector. As the automotive industry transitions toward electrification to reduce emissions and improve fuel efficiency, there is a growing need for compact and lightweight batteries to power auxiliary systems such as infotainment, lighting, and advanced driver-assistance systems (ADAS). Micro batteries play a crucial role in supporting these auxiliary functions, providing reliable power in a space-constrained environment. Moreover, advancements in battery technology, such as higher energy density and faster charging capabilities, are enabling the development of more efficient and affordable EVs and hybrid vehicles. As governments worldwide implement stricter emission regulations and offer incentives to promote electric mobility, the demand for micro batteries in the automotive sector is expected to rise, driving further innovation and growth in the market.

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If you need specific information that is not currently within the scope of the report, we will provide it to you as a part of the customization.

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Elena Anderson
IMARC Services Private Limited
+1 631-791-1145
email us here