

# **Repairable & Modular Gadgets Market Forecasts to 2032 – Global Analysis By Product Type (Smartphones, Laptops & Tablets, Audio Equipment, Gaming Consoles & Peripherals, Home Appliances, and Other Consumer Electronics), Level of Repairability, Sales Channel and By Geography**

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## **Abstracts**

According to Statistics MRC, the Global Repairable & Modular Gadgets Market is accounted for \$4.8 billion in 2025 and is expected to reach \$8.7 billion by 2032 growing at a CAGR of 8.7% during the forecast period. Repairable & Modular Gadgets Market focuses on electronic devices designed with interchangeable and upgradable parts, supporting extended product lifecycles, reduced e-waste, and cost efficiency for consumers. Modular designs allow customization and easy repair, addressing both sustainability goals and user convenience. Adoption is accelerating in smartphones, laptops, and consumer electronics, supported by right-to-repair movements and environmental regulations. Growing consumer awareness of sustainability, coupled with industry efforts to reduce ecological footprints, is positioning this market as a critical segment in future-focused consumer electronics and sustainable innovation.

Market Dynamics:

Driver:

Sustainability and E-Waste Reduction

Consumers and regulators are increasingly aware of the environmental toll of the "take-make-dispose" model, where electronics contribute significantly to toxic landfill waste.

Repairable gadgets directly counter this by extending product lifespans, reducing the frequency of disposal and the demand for raw materials. Furthermore, stringent government regulations, like the EU's right-to-repair legislation, are compelling manufacturers to adopt more circular designs, creating a formalized and growing market for products built to last.

Restraint:

#### Lack of Awareness

Many users remain unfamiliar with the concept and availability of modular gadgets, often defaulting to familiar, non-repairable brands due to entrenched purchasing habits. Additionally, manufacturers of traditional electronics often do not highlight the repairability of their products, leaving consumers in the dark about more sustainable options. This information gap slows market penetration and prevents the demand-side pull required to force a broader industry shift, thereby restraining the market's potential growth in its early stages.

Opportunity:

#### Consumer Demand for Customization

Beyond mere repairability, modular gadgets empower users to upgrade specific components, such as a camera module or battery, to suit their evolving needs without replacing the entire device. This "user-upgradable" model fosters a deeper, longer-term relationship between the consumer and the product. It allows companies to tap into a new revenue stream from component sales and build a loyal community around a platform, rather than a single, disposable product cycle.

Threat:

#### Compatibility Issues

A critical threat to market cohesion is the potential for proprietary standards and compatibility issues across brands. If each manufacturer develops its own, closed ecosystem for components and tools, it fragments the market and confuses consumers. This lack of standardization can lead to a poor user experience, where purchased modules become obsolete or fail to work with newer device generations. Such friction can erode consumer trust in the entire modular concept, ultimately protecting the market

dominance of integrated, non-repairable devices from major tech players.

#### Covid-19 Impact:

The pandemic initially disrupted supply chains, delaying production and component availability for modular gadgets. However, it simultaneously acted as a catalyst for market awareness. Lockdowns and economic uncertainty prompted consumers to seek more durable, long-lasting products and explore DIY repairs for their existing devices. This shift in mindset, combined with increased e-waste from accelerated digitalization, highlighted the fragility of linear consumption models. Consequently, the crisis underscored the value proposition of repairable products, accelerating consumer interest and regulatory discussions post-pandemic.

The smartphones segment is expected to be the largest during the forecast period

The smartphones segment is expected to account for the largest market share during the forecast period as these devices are ubiquitous, frequently upgraded, and represent a significant source of global e-waste. Consumers face high replacement costs and express growing frustration with the planned obsolescence of conventional models, particularly regarding non-replaceable batteries and fragile screens. This creates a substantial addressable market for repairable designs. Moreover, successful pioneer brands in this space have demonstrated viable business models, proving there is a strong consumer appetite for smartphones designed for longevity and easy repair.

The fully modular (User-Upgradable) segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the fully modular (User-Upgradable) segment is predicted to witness the highest growth rate as it represents the ultimate expression of the repairable gadget ethos. This model offers maximum value by allowing users to upgrade core components like processors or displays, effectively future-proofing their investment and dramatically extending the device's functional life. While currently a niche, advancing component standardization and increasing competitive pressure are making this ambitious design more feasible. The potential to reduce electronic waste and empower consumers ensures this segment will experience rapid expansion from its current base.

#### Region with largest share:

During the forecast period, the Asia Pacific region is expected to hold the largest market

share driven by its immense consumer electronics manufacturing base and a vast, tech-savvy population. Countries like China, India, and South Korea are global production hubs, giving local consumers early access to innovative modular products. Furthermore, the region's rapidly growing middle class, combined with intense price sensitivity, makes the cost-saving argument for repairable gadgets highly compelling. This confluence of manufacturing prowess and a massive, receptive consumer base solidifies the region's dominant position in the market's volume.

#### Region with highest CAGR:

Over the forecast period, the Asia Pacific region is anticipated to exhibit the highest CAGR. This accelerated growth is fueled by rising disposable incomes and escalating e-waste concerns in densely populated nations, prompting government and consumer action. Additionally, the region is a hotbed for electronics innovation and new market entrants who are more agile in adopting and promoting repairable designs compared to entrenched Western giants. The growing environmental consciousness among a young demographic and supportive policy developments create a fertile ground for the repairable and modular concept to flourish exponentially.

#### Key players in the market

Some of the key players in Repairable & Modular Gadgets Market include Fairphone, Framework, iFixit, SHIFT, Teracube, Purism, PINE64, Back Market, uBreakiFix, CPR Cell Phone Repair, System76, TUXEDO Computers, Star Labs, Raspberry Pi Foundation, and Starlabs.

#### Key Developments:

In August 2025, Fairphone released Fairphone 6 (Gen. 6) with a modular design and expandable accessories. It is highly repairable with spare parts and video tutorials provided. The phone is built to last with a five-year warranty and eight years of software support, designed for sustainability and repairability.

In July 2025, Shift announced the launch of the world's first fully customizable browser that gives users the ability to drag, drop, and design every part of their browser. From a custom layout to integrated app stacks to context-specific Spaces, Shift lets users architect a browser based on how they actually use the web.

#### Product Types Covered:

Smartphones

Laptops and Tablets

Audio Equipment

Gaming Consoles and Peripherals

Home Appliances

Other Consumer Electronics

Level of Repairabilities Covered:

DIY (Do-It-Yourself) Friendly

Professional Repair Friendly

Fully Modular (User-Upgradable)

Sales Channels Covered:

Original Equipment Manufacturers (OEMs)

Third-Party Retailers

Online/E-commerce Platforms

Regions Covered:

North America

US

Canada

Mexico

Europe

Germany

UK

Italy

France

Spain

Rest of Europe

Asia Pacific

Japan

China

India

Australia

New Zealand

South Korea

Rest of Asia Pacific

South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:

- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2024, 2025, 2026, 2028, and 2032
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

## Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

## Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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Note: Tables for North America, Europe, APAC, South America, and Middle East & Africa Regions are also represented in the same manner as above.

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