

US Rugged Electronics Market Size and Forecast (2021 - 2031), Global and Regional Share, Trend, and Growth Opportunity Analysis Report Coverage: By Type (Displays, Computers, Servers, Scanners, and Others), Type (Fully Rugged, Semi-Rugged, and Ultra-Rugged), and Industry Vertical (Aerospace & Defense, Automotive, Manufacturing, Energy and Utilities, Oil & Gas, Construction, and Others)

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Abstracts

The US Rugged Electronics market size is expected to reach US\$ 7.33 billion by 2031 from 3.72 billion in 2023, at an estimated CAGR of 8.8% from 2023 to 2031.

The US rugged electronics market report emphasizes the key factors driving the market and prominent players' developments. Rugged electronics are hardware devices specifically designed to operate in challenging environmental conditions, including extreme temperatures, water exposure, vibrations, and dust. Rugged electronics support daily business operations in the same way that non-rugged consumer electronics do. Devices that are commonly available in the form of rugged electronics include smartphones, tablets, barcode scanners, wearables, displays, and servers. These electronics allow frontline workers to access critical applications, interface with backend computing systems, and streamline data entry and reporting. These electronics are much more durable and reliable, making them ideal for frontline and desk-less workers appointed to perform their duties in the field with unpredictable weather conditions and other operational hazards.

The rugged electronics market is gaining traction in the US owing to factors such as an

upsurge in demand for durable and reliable electronic devices and a continuous increase in investments in the military and defense sector. Moreover, the ability of rugged electronics to withstand harsh environments, extreme temperatures, shocks, water, and dust makes them an ideal choice for the military and defense, oil & gas, and public sectors, among others. The rise in military expenditures empowers military forces to procure advanced and robust electronic devices for mission-critical operations. Devices such as rugged smartphones and computers can facilitate efficient communications and coordination among military forces. In February 2024, Advantech launched the latest MIC-715-OX industrial computer, designed to withstand the most rugged conditions.

Moreover, an upsurge in demand in frontline applications and automation in the manufacturing sector is driving the US rugged electronics market growth. The US rugged electronics market trends include the integration of advanced technologies such as AI and ML.

The US Rugged Electronics market analysis has been carried out by considering the following segments: device type, type, and industry vertical.

Based on device type, the market is segmented into displays, computers, servers, scanners, and others. The displays segment held the largest US rugged electronics market share in 2023. Rugged displays are high-performance, military-grade flat screens designed to display mission-critical data. They can withstand high vibrations, harsh temperatures, and wet or dusty environments. These screens are made with innovative lamination materials to reduce reflection, condensation, and dust buildup. Rugged displays feature large viewing angles and are extensively used in cellphones, handheld computers, tablets, laptops, vehicle-mounted computers, and avionic displays. Various players across the US provide rugged displays. For example, Cevians offers rugged displays for ground and airborne military applications to withstand high vibrations and altitudes, and wide storage temperatures.

Based on industry vertical, the US rugged electronics market is segmented into aerospace & defense, automotive, construction, energy and utilities, manufacturing, oil & gas, and others. The aerospace & defense segment held the largest US rugged electronics market share in 2023. Rugged displays can be utilized in military vehicles, aircraft cockpits, marine systems, command and control centers, missile systems, Unmanned Aerial Vehicles (UAVs), training simulations, night vision, and thermal imaging systems. In October 2022, Brelyon, an MIT spin-off pioneering a new category of ultra-immersive display technology, and Micro announced a strategic agreement to

collaborate for the development of Brelyon's Ultra Reality™ rugged displays for military purposes. Such collaborations are likely to propel the growth of the US rugged electronics market in the coming years.

Core Systems Inc, Crystal Group Inc, Mercury Systems Inc, Systel Inc, Trenton Systems Inc, DELL INC., ZMicro Inc, NCS Technologies Inc, Sparton Corp, and Digital Systems Engineering are among the key players profiles in the US rugged electronics market report. The strategic presence of key players positions the US as a key country rugged electronics market growth. A number of new players are expected to emerge and bring new US rugged electronics market trends in the coming years.

The overall US rugged electronics market growth has been derived using both primary and secondary sources. Exhaustive secondary research has been conducted using internal and external sources to obtain qualitative and quantitative information related to the US Rugged Electronics Market size. The process also helps obtain an overview and forecast of the US Rugged Electronics market with respect to all the market segments. Also, multiple primary interviews have been conducted with industry participants to validate the data and gain analytical insights. This process includes industry experts such as VPs, business development managers, market intelligence managers, and national sales managers, along with external consultants such as valuation experts, research analysts, and key opinion leaders, specializing in the US Rugged Electronics market.

Contents

1. INTRODUCTION

- 1.1 The Insight Partners Research Report Guidance
- 1.2 Market Segmentation

2. EXECUTIVE SUMMARY

- 2.1 Key Insights

3. RESEARCH METHODOLOGY

- 3.1 Coverage
- 3.2 Secondary Research
- 3.3 Primary Research

4. US RUGGED ELECTRONICS MARKET LANDSCAPE

- 4.1 Overview
- 4.2 PEST Analysis
- 4.3 Ecosystem Analysis

5. US RUGGED ELECTRONICS MARKET – KEY MARKET DYNAMICS

- 5.1 US rugged Electronics Market – Key Market Dynamics
- 5.2 Market Drivers
 - 5.2.1 Growing Number of Infrastructural Development Activities
 - 5.2.2 Increasing Need for Drones or UAVs in Mapping and Surveying
 - 5.2.3 Rising Demand for Land Survey Equipment
- 5.3 Market Restraints
 - 5.3.1 High Costs Associated with Land Survey Equipment
 - 5.3.2 Lack of Skilled Man Power
- 5.4 Market Opportunities
 - 5.4.1 Technological Advancement and Automation
 - 5.4.2 Government Investments and Spending to Promote Construction Activities
- 5.5 Future Trends
 - 5.5.1 Rising Deployment of Cloud-Based Software and Services
- 5.6 Impact of Drivers and Restraints:

6. US RUGGED ELECTRONICS MARKET ANALYSIS

6.1 US rugged Electronics Market Revenue (US\$ Million), 2023–2031

6.2 US rugged Electronics Market Forecast and Analysis

7. US RUGGED ELECTRONICS MARKET ANALYSIS – BY DEVICE TYPE

7.1 Displays

7.1.1 Overview

7.1.2 Displays: US rugged Electronics Market – Revenue and Forecast to 2031 (US\$ Million)

7.2 Computers

7.2.1 Overview

7.2.2 Computers: US rugged Electronics Market – Revenue and Forecast to 2031 (US\$ Million)

7.3 Servers

7.3.1 Overview

7.3.2 Servers: US rugged Electronics Market – Revenue and Forecast to 2031 (US\$ Million)

7.4 Scanners

7.4.1 Overview

7.4.2 Scanners: US rugged Electronics Market – Revenue and Forecast to 2031 (US\$ Million)

7.5 Others

7.5.1 Overview

7.5.2 Others: US rugged Electronics Market – Revenue and Forecast to 2031 (US\$ Million)

8. US RUGGED ELECTRONICS MARKET ANALYSIS – BY TYPE

8.1 Fully Rugged

8.1.1 Overview

8.1.2 Fully Rugged: US rugged Electronics Market – Revenue and Forecast to 2031 (US\$ Million)

8.2 Semi Rugged

8.2.1 Overview

8.2.2 Semi Rugged: US rugged Electronics Market – Revenue and Forecast to 2031 (US\$ Million)

8.3 Ultra Rugged

8.3.1 Overview

8.3.2 Ultra Rugged: US rugged Electronics Market – Revenue and Forecast to 2031 (US\$ Million)

9. US RUGGED ELECTRONICS MARKET ANALYSIS – BY INDUSTRY VERTICAL

9.1 Aerospace and Defense

9.1.1 Overview

9.1.2 Aerospace and Defense: US rugged Electronics Market – Revenue and Forecast to 2031 (US\$ Million)

9.2 Automotive

9.2.1 Overview

9.2.2 Automotive: US rugged Electronics Market – Revenue and Forecast to 2031 (US\$ Million)

9.3 Manufacturing

9.3.1 Overview

9.3.2 Manufacturing: US rugged Electronics Market – Revenue and Forecast to 2031 (US\$ Million)

9.4 Energy and Utilities

9.4.1 Overview

9.4.2 Energy and Utilities: US rugged Electronics Market – Revenue and Forecast to 2031 (US\$ Million)

9.5 Oil and Gas

9.5.1 Overview

9.5.2 Oil and Gas: US rugged Electronics Market – Revenue and Forecast to 2031 (US\$ Million)

9.6 Construction

9.6.1 Overview

9.6.2 Construction: US rugged Electronics Market – Revenue and Forecast to 2031 (US\$ Million)

9.7 Others

9.7.1 Overview

9.7.2 Others: US rugged Electronics Market – Revenue and Forecast to 2031 (US\$ Million)

10. COMPETITIVE LANDSCAPE

10.1 Heat Map Analysis by Key Players

10.2 Company Positioning and Concentration

11. INDUSTRY LANDSCAPE

11.1 Overview

11.2 Market Initiative

11.2 New Product Development

11.3 Partnership & Collaboration

11.4 Others

12. COMPANY PROFILES

12.1 Core Systems Inc

12.1.1 Key Facts

12.1.2 Business Description

12.1.3 Products and Services

12.1.4 Financial Overview

12.1.5 SWOT Analysis

12.1.6 Key Developments

12.2 Crystal Group Inc

12.2.1 Key Facts

12.2.2 Business Description

12.2.3 Products and Services

12.2.4 Financial Overview

12.2.5 SWOT Analysis

12.2.6 Key Developments

12.3 Mercury Systems Inc

12.3.1 Key Facts

12.3.2 Business Description

12.3.3 Products and Services

12.3.4 Financial Overview

12.3.5 SWOT Analysis

12.3.6 Key Developments

12.4 Systel Inc

12.4.1 Key Facts

12.4.2 Business Description

12.4.3 Products and Services

12.4.4 Financial Overview

12.4.5 SWOT Analysis

- 12.4.6 Key Developments
- 12.5 Trenton Systems Inc
 - 12.5.1 Key Facts
 - 12.5.2 Business Description
 - 12.5.3 Products and Services
 - 12.5.4 Financial Overview
 - 12.5.5 SWOT Analysis
 - 12.5.6 Key Developments
- 12.6 DELL, INC.
 - 12.6.1 Key Facts
 - 12.6.2 Business Description
 - 12.6.3 Products and Services
 - 12.6.4 Financial Overview
 - 12.6.5 SWOT Analysis
 - 12.6.6 Key Developments
- 12.7 ZMicro Inc
 - 12.7.1 Key Facts
 - 12.7.2 Business Description
 - 12.7.3 Products and Services
 - 12.7.4 Financial Overview
 - 12.7.5 SWOT Analysis
 - 12.7.6 Key Developments
- 12.8 NCS Technologies Inc
 - 12.8.1 Key Facts
 - 12.8.2 Business Description
 - 12.8.3 Products and Services
 - 12.8.4 Financial Overview
 - 12.8.5 SWOT Analysis
 - 12.8.6 Key Developments
- 12.9 Sparton Corp
 - 12.9.1 Key Facts
 - 12.9.2 Business Description
 - 12.9.3 Products and Services
 - 12.9.4 Financial Overview
 - 12.9.5 SWOT Analysis
 - 12.9.6 Key Developments
- 12.10 Digital Systems Engineering
 - 12.10.1 Key Facts
 - 12.10.2 Business Description

- 12.10.3 Products and Services
- 12.10.4 Financial Overview
- 12.10.5 SWOT Analysis
- 12.10.6 Key Developments

13. APPENDIX

- 13.1 About The Insight Partners
- 13.2 Word Index

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