

Rugged Handheld Electronic Devices Market Forecast till 2030

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Report description:

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Market Overview

Rugged handheld electronic devices undergo rigorous testing to ensure their durability and ability to withstand harsh conditions such as extreme temperatures, strong vibrations, and wet or dusty environments. These devices include mobile computers, smartphones, scanners, and other types. Their ability to maintain communication and connectivity during unpredictable situations is crucial. The cost of rugged devices is typically higher than consumer devices due to their unique design and protective features, but the return on investment quickly justifies the expense.

Rugged devices are used across various industries, including warehouse management, healthcare, delivery services, emergency response, and frontline work. These devices have proven to be reliable and durable due to their immunity to shocks and drops.

Segment Overview

The market for rugged handheld electronic devices has been divided into product types and end-user segments. The product type segment includes Smartphones and Tablets, Mobile Computers, Reader/Scanner and Others. The end-user segment has been divided into Manufacturing industries, Retail, Transportation and Logistics, Military & Defense, Government, and Others. This segmentation provides a more comprehensive view of the global rugged handheld electronic devices market, helping businesses identify potential opportunities and target specific customer groups.

Regional Analysis

The market for rugged handheld electronic devices is dominated by North America, with a strong presence of key players like Honeywell International Inc., Zebra Technologies Corporation, and Juniper Systems, Inc. This can be attributed to the region's early adoption of the technology, which has been a significant driving force for market growth. The United States, in particular, has seen an increasing demand for rugged handheld devices due to the rapid development of technology and infrastructure in its industrial sector, which enhances communication among devices.

The US government has been using these devices, including scanners, PDAs, mobile computers, and smartphones, for various purposes such as health services, emergency communication, and inventory management. These devices are also used in mission-critical situations and can communicate with several devices remotely even in harsh environments. Furthermore, the rising demand for IoT-based rugged handheld devices in the country is propelling market growth.

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In Canada, the technological advancements in various sectors like automotive, electrical, mining, and oil & gas, are contributing to the GDP of the country and driving the market growth of rugged handheld devices. These devices collect and communicate real-time data with machines and increase connectivity even in extreme conditions like disasters and fires. They are also used by law enforcement officials in the country. The rugged nature of these devices makes them ideal for use in harsh environments as they can withstand water, dust, extreme heat, and vibration conditions. In Mexico, the automotive industry, electronics, oil, energy, and banking sectors are some of the major industries that play a crucial role in the country's economic growth.

Major Players

Key players in the market are Handheld Group (Sweden), Zebra Technologies(US), Panasonic Corporation(Japan), Advantech Co., Ltd(Taiwan), Juniper Systems Inc.(US), Honeywell International, Inc. (US), Getac Technology Corp.(Taiwan), TouchStar PLC(UK), Datalogic SpA(Italy), and CIPHERLAB Co., Ltd(Taiwan).

COVID 19 Impacts

The outbreak of COVID-19 has significantly impacted several industries worldwide, leading to travel restrictions, global lockdowns, and disrupted supply chains. The semiconductor industry has also been affected by the unprecedented event, with a considerable decline in revenues due to the uncertain location of digital gadgets. However, despite the rising uncertainty, semiconductor manufacturers, especially chipmakers, are striving to maintain their operations and develop a long-term strategy. To achieve sustained commercial stability, many semiconductor manufacturers are collaborating with their partners and specific markets. For instance, they are focusing on research, designs, and production methods while prioritizing the health and safety of their employees. Despite the challenges posed by the pandemic, the semiconductor industry is continuing its operations to cater to end-users, including medical and healthcare technologies like artificial intelligence, Industry 4.0, and 5G, which are instrumental in combating COVID-19. Notably, semiconductor components play a crucial role in smart device manufacturing, and the pandemic-induced restrictions have slowed down the adoption rate of these solutions.

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