

North America Rugged Servers Market Forecast to 2030 - Regional Analysis - By Type (Universal and Dedicated) and End User (Aerospace, Oil & Gas, Manufacturing, Telecommunication, Mining, Energy, Logistics, Construction, and Others)

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Abstracts

The North America rugged servers market is expected to grow from US\$ 268.11 million in 2022 to US\$ 416.66 million by 2030. It is estimated to grow at a CAGR of 5.7% from 2022 to 2030.

Developments in Energy & Power Industry Drive North America Rugged Servers Market

The energy & power industry is among the fastest-growing industries in the US.

According to EIA, the renewable energy capacity, mostly from wind and solar, will reduce electricity generation from coal-fired and natural gas-fired power plants in 2022-2024. In 2022, wind and solar accounted for 14% of US electricity generation. The electricity generation from wind and solar is expected to rise to 16% in 2022 and 18% in 2024. It is also expected that the electricity generation from coal will fall from 20% in 2022 to 17% in both 2022 - 2024. In addition, natural gas accounted for 39% of electricity generation in 2022 and is expected to fall to 37% in 2024. This growth in the energy & power industry in the US is expected to surge the adoption of new and advanced technology. It will also push technology developers to offer advanced products and services to the energy & power industry. In April 2022, Crystal Group Inc.—a leading designer and manufacturer of rugged computer and electronic hardware—launched the CMS-01171, the first iteration of the ES373S17 substation server, the first VMware-validated configuration of virtualization-enabled servers. This system combines real-time automation, cybersecurity, auto-failover, remote management, and zero-trust security features for power grid modernization. Thus, such growing advancements by the market players will further propel the market growth. In addition, over the past few years, the energy & power industry has encountered a

significant rise in data, so the demand for advanced data centers has been rising. This has further heightened the requirement for high-end ruggedized servers capable of restraining malicious activities. In the coming decades, digital technologies are set to make the energy & power industry more connected, intelligent, efficient, reliable, and sustainable. This fact highlights the quantity of data the industry is expected to generate, which demands highly secured storage. In addition, as the energy and power production plants such as wind power plants and solar power plants are located in remote areas with harsh environments, the demand for ruggedized servers is expected to increase in the US, further creating an opportunity for the growth of the North America rugged servers market during the forecast period.

North America Rugged Servers Market Overview

North America is a prominent region in the rugged server market due to the increasing adoption of these servers in mission-critical applications in the military, aerospace, and industrial sectors. The high-end developments, research & advancement activities, and the need for improved process flexibility and enhanced efficiency will further boost the regional market growth during the forecast period. Aerospace, transportation, chemicals, oil & gas, and telecommunications are among the major industries in North America. Also, the adoption of Industrial Internet of Things (IIoT) is considerably high in the region. Manufacturing, oil & gas, transportation, healthcare, and numerous industry verticals are adopting digital transformation strategies and implementing IIoT in their business operations. Thus, market players are focusing on new product launches of rugged servers for numerous industries. In February 2022, Getac expanded its X600 range of rugged mobile workstations by introducing powerful new X600 Server and X600 Pro-Pci models for industries such as defense, manufacturing, and oil & gas. North America had primed its contribution to the global aerospace industry. North America would continue to generate a greater profit in the coming years due to the growing global airline industry. In addition, the region reported a 51.6% increase in air traffic in March 2022 compared to 2022. The capacity of carrying passengers increased by 34.0%, showing North America dominates the aerospace sector. The rising air traffic is increasing the need for aircraft in the region, boosting the demand for rugged servers. Thus, various companies in North America are launching new rugged servers for the aviation sector. In April 2022, CP Technologies launched a new Rugged Storage Server. It is a purpose-built server used to access and store small to large amounts of data over a distributed network. The storage server is connected to the networked storage resources and can be configured as network-attached storage (NAS) or other storage networking technologies. Therefore, the above factors are boosting the North America rugged server market.

North America Rugged Servers Market Revenue and Forecast to 2030 (US\$ Million)

North America Rugged Servers Market Segmentation

The North America rugged servers market is segmented into type, end user, and country.

Based on type, the North America rugged servers market is bifurcated into universal and dedicated. In 2022, the dedicated segment registered a larger share in the North America rugged servers market.

Based on end user, the North America rugged servers market is segmented into aerospace, oil & gas, manufacturing, telecommunication, mining, energy, logistics, construction, and others. In 2022, the aerospace segment registered the largest share in the North America rugged servers market.

Based on country, the North America rugged servers market is segmented into the US, Canada, Mexico. In 2022, the US registered the largest share in the North America rugged servers market.

Core Systems Inc, CP Technologies LLC, Crystal Group Inc, Dell Technologies Inc, Mercury Systems Inc, NCS Technologies Inc, Sparton Corp, Systel Inc, Trenton Systems Inc, and ZMicro Inc are some of the leading companies operating in the North America immunodiagnosics market.

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