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Europe 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 Europe rugged servers market is expected to grow from US$ 120.19 million in 2022 to US$ 171.31 million by 2030. It is estimated to grow at a CAGR of 4.5% from 2022 to 2030.

Significant Demand from Defense Forces Drive Europe Rugged Servers Market

The military forces are among the leading end users of ruggedized devices such as rugged computers, data centers, and portable electronics. The demand for ruggedized data centers and servers is growing at a noteworthy rate among the military forces due to the rough usage of the devices at various remote locations where the environment is unfavorable for various consumer-grade technologies and systems. In addition, the need to store the vast amount of data collected from various sources is propelling the demand for rugged servers, as they are high-end security solutions. In January 2022, Mercury Systems, Inc., the technology company that delivers processing power for aerospace and defense missions, announced its next-generation rugged edge servers featuring 4th generation Intel Xeon Scalable processors, formerly Sapphire Rapids. The server will accelerate compute-intensive edge workloads and drive faster insights for critical aerospace and defense missions. Such product launches drive the adoption of rugged server technology in the defense sector. In September 2020, Crystal Group Inc. also launched three new rugged servers: the RS4105L22 4U GPU server, the RS1.532L21X2F twin server, and Crystal Group FORCE RS2606. These servers are designed for ultra-high ISR performance and can be deployed on allied military aircraft. These rugged servers provide essential capabilities for real-time reliability and accuracy in the military. In April 2022, EXPANDO released its rugged SERVER HALF19 for ultra-

high performance. The EXPANDO unveiled this rugger server to meet the growing demand for distributed intelligent architectures. The HALF19 is used in various military, industrial, and commercial industries. The rise in demand would also enable the market players to expand their geographic reach and enable the ruggedized server industry to witness the emergence of newer players. Further, the adoption of rugged servers is expected to rise in the coming years as military forces emphasize the digital transition to gain an advantage over enemies or competitors. The increased focus on the digitalization of military forces across the country is anticipated to bolster the growth of the Europe rugged servers market.

Europe Rugged Servers Market Overview

The aerospace sector in Europe is a crucial contributor to the region's economy. The region is witnessing an increase in air traffic. In March 2022, the Airports Council International (ACI Europe) announced that passenger traffic in the European network of airports grew by more than 69% in January 2022 compared to January 2022. With the increased air traffic, the aircraft production in Europe is increasing significantly. As almost all aircraft require rugged servers to store, send, and receive data, its need is expected to increase in the region. In addition, the demand for rugged servers is especially increasing in military aircraft, as traditional servers cannot be used in extreme temperatures and high altitudes. This is pushing the market players to develop advanced rugged servers. In 2020, Crystal Group announced the launch of rugged servers—the RS1.532L21X2F twin server, RS4105L22 4U GPU server, and Crystal Group FORCE RS2606. All servers are designed for ultra-high ISR performance. Deployed on allied military aircraft, these new rugged servers provide the essential capabilities for accuracy and real-time reliability in the field.

The military expenditure in Europe is growing significantly. According to the European Defense Agency, European military spending was US$ 231 billion in 2021, a 6% increase from 2020. It was the seventh year of back-to-back growth in military spending on the continent. The demand for rugged servers in military applications continues to surge. The defense forces install high-end servers onto vehicles (airborne, ground, and naval) to fetch and store enormous volumes of critical and confidential data. The military vehicle navigates through severe environmental conditions, which demands the installation of robust and military-grade (MIL-Grade) servers intended for continuous and smooth operations under rigorous environmental conditions. Thus, the Europe rugged server market is growing significantly.

Europe Rugged Servers Market Revenue and Forecast to 2030 (US$ Million)

Europe Rugged Servers Market Segmentation

The Europe rugged servers market is segmented into type, end user, and country. Based on type, the Europe rugged servers market is bifurcated into universal and dedicated. In 2022, the dedicated segment registered a larger share in the Europe

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rugged servers market.
Based on end user, the Europe 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 Europe rugged servers market.
Based on country, the Europe rugged servers market is segmented into France, Germany, the UK, Italy, Russia, and the Rest of Europe. In 2022, Germany registered the largest share in the Europe rugged servers market.
Crystal Group Inc, Dell Technologies Inc, Mercury Systems Inc, and ZMicro Inc are some of the leading companies operating in the Europe rugged servers market.

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