

Vpx Sbc Market – Global Industry Size, Share, Trends, Opportunity, and Forecast Segmented by Processor (NXP power architecture, Intel, ARM, and others), By Rack Unit (3U and 6U), By Application (Electronic Warfare, Radars, Mission Computers, ISR, and Others), By End-use (Defense, Aerospace, Commercial, Industrial, and Others), By Region & Competition, 2019-2029F

<https://marketpublishers.com/r/VADBE227B8AAEN.html>

Date: October 2024

Pages: 185

Price: US\$ 4,500.00 (Single User License)

ID: VADBE227B8AAEN

Abstracts

Global Vpx Sbc Market was valued at USD 165.11 Million in 2023 and is anticipated to project robust growth in the forecast period with a CAGR of 12.10% through 2029. The increasing demand for home entertainment, rising popularity of streaming services, increasing affordability of smart home projectors are the factors driving the market growth with the high CAGR. Highly competitive, the VPX SBC market appears fragmented due to the presence of several well-established players. Mergers & acquisitions, innovation, and brand reinforcement remain prevailing key trends for the leading players as these strategies support their growth and expansion plans. They deliver reliable, leading-edge products that can support standard and custom embedded computing solutions.

Key Market Drivers

Increasing Demand for High-Performance Computing

The increasing demand for high-performance computing (HPC) is a significant driver in the global VPX Single Board Computer (SBC) market. HPC systems are essential for

processing large datasets and performing complex calculations, crucial in fields such as scientific research, financial modeling, and climate simulation. VPX SBCs are designed to meet the rigorous demands of HPC applications by providing robust processing power, high-speed data transfer capabilities, and superior connectivity. The modular and scalable nature of VPX SBCs makes them ideal for HPC systems, allowing for easy upgrades and customization to meet specific computational needs.

As industries and research institutions push the boundaries of computational science, the need for reliable and powerful computing platforms grows. VPX SBCs, with their ability to integrate multiple processors and support high-bandwidth communication protocols, are well-suited to handle these tasks. Moreover, the adoption of artificial intelligence (AI) and machine learning (ML) technologies in various sectors further fuels the demand for HPC solutions. AI and ML applications require substantial processing power and data handling capabilities, which VPX SBCs can provide efficiently.

Advancements in Defense and Aerospace Applications

The advancements in defense and aerospace applications are a pivotal driver for the global VPX Single Board Computer (SBC) market. These sectors require robust, reliable, and high-performance computing solutions to support a wide range of critical operations, from real-time data processing in unmanned systems to advanced navigation and communication systems in aircraft. VPX SBCs are particularly well-suited for these applications due to their rugged design, high computational power, and ability to withstand harsh environments.

Defense and aerospace applications demand systems that can operate under extreme conditions, such as high temperatures, shock, and vibration. VPX SBCs are designed with ruggedization features that ensure they can perform reliably in such challenging environments. This makes them ideal for use in military vehicles, aircraft, and other defense systems where failure is not an option.

Moreover, the increasing complexity of defense and aerospace missions requires advanced computing capabilities. For instance, modern military systems use sophisticated sensors and require real-time data processing and analysis to make rapid and accurate decisions. VPX SBCs, with their high-speed processing and data transfer capabilities, are capable of handling these demanding tasks efficiently. The ability to integrate multiple processing units and high-bandwidth communication interfaces further enhances their suitability for these applications.

Additionally, the trend towards network-centric warfare and the need for interoperability between various defense systems drive the demand for flexible and scalable computing platforms like VPX SBCs. These systems must be capable of seamless communication and integration with other components in the defense network, ensuring coordinated and efficient operations.

In aerospace, the development of more advanced and autonomous systems, such as drones and next-generation aircraft, also boosts the demand for high-performance computing solutions. VPX SBCs provide the necessary computational power and reliability to support the advanced functionalities of these systems, from real-time navigation and control to data acquisition and processing.

Growing Adoption of AI and Machine Learning

The growing adoption of artificial intelligence (AI) and machine learning (ML) is a major driver for the global VPX Single Board Computer (SBC) market. AI and ML applications require substantial computational power, real-time data processing, and efficient data handling capabilities, all of which are strengths of VPX SBCs. These applications span across various industries, including healthcare, finance, automotive, and manufacturing, leading to a broad and increasing demand for advanced computing solutions.

In healthcare, AI and ML are used for diagnostics, personalized medicine, and predictive analytics. These applications need robust computing platforms to process large volumes of medical data, run complex algorithms, and deliver results in real-time. VPX SBCs, with their high processing power and data throughput capabilities, are ideal for such demanding tasks, enabling faster and more accurate medical analyses and outcomes.

The financial sector also leverages AI and ML for algorithmic trading, fraud detection, and risk management. These applications require low-latency, high-speed processing to analyze massive datasets and make real-time decisions. VPX SBCs provide the necessary computational performance and reliability, ensuring that financial institutions can maintain competitive advantages and safeguard against risks effectively.

In the automotive industry, AI and ML drive innovations in autonomous driving, advanced driver-assistance systems (ADAS), and predictive maintenance. Autonomous vehicles and ADAS require real-time processing of sensor data to make immediate decisions, ensuring safety and efficiency on the road. VPX SBCs offer the high-performance computing needed to support these advanced systems, facilitating the

development and deployment of safer, smarter vehicles.

Manufacturing industries are increasingly adopting AI and ML for automation, predictive maintenance, and quality control. These applications enhance productivity, reduce downtime, and improve product quality. VPX SBCs enable the integration of AI and ML into manufacturing processes by providing the computational power necessary to analyze production data in real-time and optimize operations.

Furthermore, the integration of AI and ML into IoT devices enhances their capabilities, leading to the concept of AIoT (AI + IoT). This trend further boosts the demand for high-performance computing solutions like VPX SBCs, which can handle the intensive data processing and analytics required for AIoT applications.

Increasing Investments in Industrial Automation

The increasing investments in industrial automation are a significant driver for the global VPX Single Board Computer (SBC) market. Industrial automation involves the use of advanced control systems, robotics, and AI to enhance the efficiency, reliability, and productivity of manufacturing processes. VPX SBCs play a crucial role in this transformation by providing the high-performance computing power necessary to support these sophisticated systems.

Manufacturers are increasingly adopting automation technologies to stay competitive in a rapidly evolving market. Automated systems can perform repetitive tasks with higher precision and consistency than human labor, reducing errors and increasing output quality. VPX SBCs, with their powerful processors and real-time data processing capabilities, enable these automated systems to operate efficiently and effectively.

The integration of robotics in manufacturing is a key aspect of industrial automation. Robots require robust computing platforms to process sensor data, execute complex algorithms, and perform precise movements. VPX SBCs provide the necessary computational power and reliability to support advanced robotic applications, from assembly and welding to inspection and packaging.

Furthermore, the use of AI and machine learning in industrial automation allows for predictive maintenance, quality control, and process optimization. AI-driven systems can analyze production data in real-time, predict equipment failures before they occur, and optimize production parameters to improve efficiency. VPX SBCs enable these AI applications by offering high-speed data processing and real-time analytics capabilities.

The push for Industry 4.0, which emphasizes the integration of cyber-physical systems, IoT, and cloud computing in manufacturing, also drives the demand for VPX SBCs. These advanced computing platforms support the connectivity, data exchange, and real-time processing required for smart manufacturing environments. VPX SBCs facilitate the seamless integration of various automation technologies, enhancing the overall efficiency and productivity of manufacturing processes.

Moreover, government initiatives and investments in smart manufacturing and digital transformation further fuel the growth of industrial automation. These initiatives aim to enhance the global competitiveness of manufacturing industries, driving the adoption of advanced technologies like VPX SBCs.

Rising Demand for Reliable and Rugged Computing Solutions

The rising demand for reliable and rugged computing solutions is a major driver in the global VPX Single Board Computer (SBC) market. Various industries, including military, aerospace, transportation, and energy, operate in environments that require computing systems to withstand harsh conditions such as extreme temperatures, shock, vibration, and humidity. VPX SBCs are specifically designed to meet these demanding requirements, offering robustness and reliability that are critical for mission-critical applications.

In the military and defense sectors, rugged computing solutions are essential for field operations, where equipment must endure the rigors of combat environments. VPX SBCs provide the necessary durability and performance to support applications such as command and control, surveillance, and communication systems. Their ability to operate reliably under extreme conditions ensures that military operations can proceed without interruption, even in the most challenging environments.

The aerospace industry also demands rugged computing solutions for applications in aircraft, satellites, and unmanned aerial vehicles (UAVs). These systems must perform reliably at high altitudes, in varying temperatures, and under significant mechanical stress. VPX SBCs, with their rugged design and high-performance capabilities, are ideal for aerospace applications, ensuring the safety and efficiency of flight operations and data processing.

Key Market Challenges

Technological Advancements and Obsolescence

The rapid pace of technological advancements poses a significant challenge for the global VPX Single Board Computer (SBC) market. As newer and more advanced technologies emerge, older VPX SBCs quickly become obsolete. This rapid obsolescence creates a constant pressure on manufacturers to innovate and update their product lines to stay competitive. The cycle of innovation is costly and time-consuming, often requiring substantial investment in research and development. Furthermore, the need to maintain compatibility with existing systems while integrating new technologies adds another layer of complexity. Customers, especially in defense and aerospace sectors, often require long-term product support and compatibility, making the transition to newer technologies a delicate balancing act. The challenge is not just to develop cutting-edge products but also to manage the lifecycle of existing products efficiently, ensuring that they do not become prematurely obsolete. This dynamic environment necessitates a strategic approach to product development and lifecycle management, which can strain resources and impact profitability.

Supply Chain Disruptions

Supply chain disruptions are a significant challenge for the global VPX SBC market, especially in the context of global events such as the COVID-19 pandemic. The production of VPX SBCs relies on a complex network of suppliers for components such as semiconductors, connectors, and other electronic parts. Any disruption in the supply chain can lead to delays in production and increased costs. The semiconductor shortage, for instance, has severely impacted the availability of critical components, leading to longer lead times and higher prices. Additionally, geopolitical tensions and trade restrictions can further complicate the supply chain, causing uncertainty and instability. Companies must invest in robust supply chain management practices, including diversifying suppliers and increasing inventory levels, to mitigate these risks. However, these measures can increase operational costs and affect overall profitability. The challenge lies in balancing cost efficiency with the need for supply chain resilience, ensuring that production schedules are maintained without compromising on quality or increasing costs excessively.

Stringent Regulatory and Compliance Requirements

The VPX SBC market is heavily regulated, particularly in sectors such as defense, aerospace, and telecommunications. Compliance with stringent regulatory requirements is a major challenge for manufacturers. These regulations are designed to ensure the

safety, reliability, and performance of VPX SBCs, given their critical applications. For instance, defense-related VPX SBCs must comply with military standards such as MIL-STD-810 for environmental conditions and MIL-STD-461 for electromagnetic compatibility. Achieving and maintaining compliance with these standards requires rigorous testing, certification, and documentation processes, which can be both time-consuming and costly. Additionally, regulatory requirements can vary significantly across different regions, necessitating a thorough understanding of local regulations and the ability to adapt products accordingly. Non-compliance can lead to severe penalties, product recalls, and loss of reputation. Therefore, companies must invest in comprehensive compliance programs and ensure that their products meet all relevant standards, adding to the overall cost and complexity of bringing VPX SBCs to market.

High Development and Production Costs

The development and production of VPX SBCs involve substantial costs, which pose a significant challenge for market players. Designing a VPX SBC requires advanced engineering skills and sophisticated software tools, both of which are expensive. The use of high-performance components, such as powerful processors and advanced connectors, further drives up costs. Additionally, manufacturing VPX SBCs to meet the rigorous standards of industries like defense and aerospace requires specialized equipment and facilities, contributing to high capital expenditure. Quality assurance processes, including extensive testing and validation, add another layer of expense. For smaller companies, these high development and production costs can be prohibitive, limiting their ability to compete with larger, more established players. Even for larger companies, maintaining cost efficiency while ensuring high-quality standards is a constant challenge. The high cost structure of the VPX SBC market necessitates careful financial planning and cost management strategies to ensure profitability and sustainability in a highly competitive environment.

Intense Competition and Market Saturation

The VPX SBC market is characterized by intense competition and increasing market saturation, presenting significant challenges for companies operating in this space. Numerous established players and new entrants are vying for market share, leading to fierce competition. This competitive landscape drives companies to constantly innovate and differentiate their products, which can be resource-intensive. Moreover, as the market becomes saturated, finding new growth opportunities becomes increasingly difficult. Companies must explore niche applications and emerging markets to sustain growth, which may require additional investment in market research and development of

specialized products. The pressure to offer competitive pricing while maintaining high quality and performance adds to the challenge. Additionally, customers in industries such as defense and aerospace have high expectations and specific requirements, making it crucial for companies to provide customized solutions. To succeed in this competitive environment, companies need to adopt strategic marketing, invest in innovation, and build strong customer relationships, all of which require substantial effort and resources.

Key Market Trends

Increasing Demand for High-Performance Computing

The global market for VPX Single Board Computers (SBCs) is witnessing a significant upsurge in demand, driven by the need for high-performance computing solutions across various industries. With the proliferation of data-intensive applications in fields such as artificial intelligence (AI), machine learning, and big data analytics, organizations are increasingly seeking powerful computing platforms. VPX SBCs, known for their high processing power, advanced I/O capabilities, and rugged design, are ideal for such demanding environments. The defense and aerospace sectors, in particular, are major adopters, leveraging VPX SBCs for applications like real-time data processing, signal intelligence, and mission-critical operations. The ability of VPX SBCs to operate in extreme conditions while delivering reliable performance makes them indispensable in these high-stakes areas. Additionally, industries such as telecommunications, industrial automation, and medical imaging are also contributing to the growing demand, as they require robust and efficient computing systems to handle complex tasks. This trend is further propelled by the ongoing advancements in processor technologies and the development of more sophisticated SBCs, which offer enhanced capabilities and greater efficiency. As a result, the VPX SBC market is poised for substantial growth, driven by the expanding applications of high-performance computing across diverse sectors.

Adoption of Open Standards and Modular Architectures

The adoption of open standards and modular architectures is a prominent trend shaping the global VPX SBC market. Open standards, such as those defined by the VITA (VMEbus International Trade Association) and OpenVPX, are increasingly being embraced to ensure interoperability and flexibility in system design. These standards facilitate the integration of multi-vendor components, allowing end-users to build and customize systems according to their specific needs. This modularity is particularly

beneficial in sectors like defense and aerospace, where systems must be adaptable to evolving requirements and technological advancements. The use of open standards also reduces vendor lock-in, providing customers with the freedom to choose the best available components and ensuring long-term sustainability. Furthermore, modular architectures enable easier upgrades and maintenance, as individual modules can be replaced or updated without overhauling the entire system. This is critical in applications requiring long operational lifespans, such as military and industrial environments. The trend towards open standards is also fostering innovation and competition among manufacturers, leading to the development of more advanced and cost-effective VPX SBC solutions. As a result, the market is seeing a proliferation of products that are not only high-performing but also versatile and future-proof, catering to a wide range of applications and industries.

Growing Importance of Cybersecurity

In the increasingly digital and interconnected world, cybersecurity has become a paramount concern across all sectors, and the VPX SBC market is no exception. The growing reliance on embedded systems for critical applications in defense, aerospace, telecommunications, and industrial automation has heightened the need for robust security measures. VPX SBCs, which often operate in mission-critical environments, are now being designed with advanced cybersecurity features to protect against threats and ensure the integrity of operations. This includes hardware-based security mechanisms, secure boot processes, and real-time encryption capabilities. Manufacturers are also integrating trusted platform modules (TPMs) and other cryptographic technologies to safeguard sensitive data and prevent unauthorized access. The trend towards enhanced cybersecurity is driven by the increasing sophistication of cyberattacks and the potential consequences of security breaches, which can range from operational disruptions to the compromise of confidential information. Regulatory requirements and industry standards are also playing a crucial role, mandating stringent security protocols for systems used in critical infrastructure. As a result, end-users are prioritizing security when selecting VPX SBC solutions, seeking products that offer comprehensive protection against a wide spectrum of threats. This focus on cybersecurity is expected to continue growing, influencing the development and adoption of VPX SBCs in the global market.

Integration of AI and Machine Learning Capabilities

The integration of artificial intelligence (AI) and machine learning (ML) capabilities into VPX SBCs is an emerging trend that is transforming the market landscape. As

industries increasingly leverage AI and ML for data analysis, decision-making, and automation, the need for SBCs that can support these advanced technologies is rising. VPX SBCs are being equipped with powerful processors, GPUs, and specialized AI accelerators to handle the complex computations required for AI and ML applications. In defense and aerospace, these enhanced SBCs are used for applications such as autonomous systems, predictive maintenance, and real-time situational awareness. In industrial automation, they enable smarter manufacturing processes, quality control, and predictive analytics. The healthcare sector is also benefiting from AI-enabled VPX SBCs, which support applications like medical imaging, diagnostics, and patient monitoring. The trend towards AI integration is driven by the growing availability of AI software frameworks and the increasing demand for intelligent, autonomous systems. By incorporating AI and ML capabilities, VPX SBCs can offer greater efficiency, accuracy, and adaptability in various applications. This integration is expected to drive innovation and open new avenues for the use of VPX SBCs, further expanding their market potential.

Emphasis on Energy Efficiency and Thermal Management

As the performance capabilities of VPX SBCs continue to advance, managing energy consumption and thermal dissipation has become a critical focus for the market. The trend towards higher processing power and more complex functionalities often results in increased heat generation and energy usage, which can impact system reliability and longevity. Consequently, there is a growing emphasis on developing energy-efficient VPX SBCs that optimize power usage without compromising performance. Manufacturers are incorporating advanced power management techniques, such as dynamic voltage and frequency scaling (DVFS), to reduce energy consumption during periods of low demand. Additionally, innovative thermal management solutions, such as advanced heat sinks, liquid cooling, and thermal interface materials, are being employed to effectively dissipate heat and maintain optimal operating temperatures. These measures are crucial for applications in harsh environments, where maintaining system stability is paramount. The push for energy efficiency is also aligned with broader environmental sustainability goals, as reducing power consumption contributes to lower carbon footprints. End-users are increasingly considering energy efficiency as a key factor in their procurement decisions, driving demand for VPX SBCs that offer superior performance while minimizing energy usage. This trend is expected to spur ongoing innovation in the design and manufacturing of VPX SBCs, leading to more sustainable and reliable computing solutions.

Segmental Insights

End-Use Insights

Defense dominated in the Global Vpx Sbc Market in 2023. The defense industry continuously seeks to enhance its technological capabilities to maintain superiority and respond effectively to modern threats. VPX SBCs, with their high-performance computing power, rugged design, and reliable operation in extreme conditions, are ideally suited for a variety of defense applications. These include command and control systems, radar and sonar systems, electronic warfare, and real-time data processing. The ability of VPX SBCs to handle complex and high-speed data processing tasks is crucial for mission-critical operations. Modern defense operations rely heavily on real-time data processing and intelligence to make informed decisions quickly. VPX SBCs provide the necessary computational power and fast data throughput required for applications such as signal intelligence (SIGINT), electronic intelligence (ELINT), and geospatial intelligence (GEOINT). These applications require the collection, analysis, and dissemination of vast amounts of data in real-time, a task that VPX SBCs are well-equipped to handle.

Defense operations often take place in harsh and unpredictable environments, where equipment must withstand extreme temperatures, shock, vibration, and humidity. VPX SBCs are designed to meet stringent military standards for ruggedization and durability, ensuring reliable performance in these challenging conditions. This makes them the preferred choice for deployment in military vehicles, aircraft, naval vessels, and remote installations. Security is paramount in defense applications, where the protection of sensitive data and systems is critical. VPX SBCs incorporate advanced security features, such as hardware-based encryption, secure boot, and trusted platform modules (TPMs), to safeguard against cyber threats and unauthorized access. These security measures are essential for maintaining the integrity and confidentiality of defense operations. The modular architecture of VPX SBCs allows for flexibility and scalability in defense systems. Open standards like OpenVPX enable the integration of multi-vendor components, making it easier to upgrade and customize systems according to evolving requirements. This adaptability is crucial in the defense sector, where technological advancements and changing operational needs necessitate regular system updates and enhancements.

Regional Insights

North America dominated in the Global Vpx Sbc Market in 2023. North America, particularly the United States, has one of the largest and most advanced defense

sectors globally. The U.S. Department of Defense (DoD) allocates significant portions of its budget to modernize and enhance military capabilities. This includes investments in cutting-edge technologies and high-performance computing systems. VPX SBCs are integral to many defense applications, such as radar, electronic warfare, unmanned systems, and real-time data processing. The robust demand from the defense sector, fueled by ongoing modernization programs and new defense initiatives, has significantly contributed to North America's dominance in the VPX SBC market. North America is home to numerous leading technology companies and research institutions that drive innovation in computing and electronics. Companies like Intel, NVIDIA, and AMD, along with specialized VPX SBC manufacturers such as Curtiss-Wright, Abaco Systems, and Mercury Systems, are at the forefront of developing advanced computing solutions. The region's strong emphasis on research and development (R&D) ensures the continuous advancement of VPX SBC technology, providing cutting-edge products that meet the demanding requirements of various industries.

The aerospace and defense sectors in North America extensively adopt VPX SBCs for their critical applications. The region's prominent aerospace industry, led by companies like Boeing, Lockheed Martin, and Northrop Grumman, relies on high-performance and reliable computing systems for avionics, navigation, and mission-critical operations. The integration of VPX SBCs into these applications ensures enhanced performance, reliability, and real-time data processing, essential for both civilian and military aerospace applications. North America is a global leader in the adoption and development of artificial intelligence (AI) and machine learning (ML) technologies. These technologies require powerful and efficient computing platforms, making VPX SBCs a critical component. Industries such as defense, aerospace, telecommunications, and healthcare are increasingly leveraging AI and ML for various applications, driving the demand for high-performance VPX SBCs. The region's focus on AI and ML innovation further cements its position as a dominant market for VPX SBCs.

In addition to defense and aerospace, North America's strong industrial automation and telecommunications sectors contribute to the demand for VPX SBCs. Industrial automation relies on high-performance computing for process control, monitoring, and predictive maintenance, while the telecommunications sector requires robust computing solutions for network infrastructure, data centers, and 5G technology. The region's advanced industrial base and leadership in telecommunications drive the widespread adoption of VPX SBCs in these sectors. The regulatory environment in North America, particularly in the United States, supports technological innovation and the adoption of advanced computing systems. Government policies and funding initiatives aimed at

enhancing national security, technological competitiveness, and infrastructure development provide a favorable environment for the growth of the VPX SBC market. Government support for research and development, along with tax incentives and grants, further stimulates innovation and market expansion. North America hosts several major VPX SBC manufacturers and suppliers, providing a wide range of products and solutions. The presence of these key players ensures a steady supply of high-quality VPX SBCs, catering to the diverse needs of various industries. The competitive landscape encourages continuous product development and innovation, maintaining North America's leadership in the global market.

Key Market Players

Abaco Team SpA

Extreme Engineering Solutions, Inc

Aitech

Curtiss-Wright Corporation

Mercury Systems, Inc.

Concurrent Technologies Plc

Mistral Solutions Pvt. Ltd.

Kontron Europe GmbH

ADLINK Technology Inc.

Connect Tech Inc.

Report Scope:

In this report, the Global Vpx Sbc Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Vpx Sbc Market, By Product :

NXP power architecture

Intel

ARM

others

Vpx Sbc Market, By Rack Unit:

3U

6U

Vpx Sbc Market, By Application:

Electronic Warfare

Radars

Mission Computers

ISR

Others

Vpx Sbc Market, By End User:

Defense

Aerospace

Commercial

Industrial

Others

Vpx Sbc Market, By Region:

North America

United States

Canada

Mexico

Asia-Pacific

China

India

Japan

South Korea

Indonesia

Europe

Germany

United Kingdom

France

Russia

Spain

South America

Brazil

Argentina

Middle East & Africa

Saudi Arabia

South Africa

Egypt

UAE

Israel

Competitive Landscape

Company Profiles: Detailed analysis of the major companies presents in the Global Vpx Sbc Market.

Available Customizations:

Global Vpx Sbc Market report with the given market data, Tec

Contents

1. PRODUCT OVERVIEW

- 1.1. Market Definition
- 1.2. Scope of the Market
- 1.3. Markets Covered
- 1.4. Years Considered for Study
- 1.5. Key Market Segmentations

2. RESEARCH METHODOLOGY

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Key Industry Partners
- 2.4. Major Association and Secondary Sources
- 2.5. Forecasting Methodology
- 2.6. Data Triangulation & Validation
- 2.7. Assumptions and Limitations

3. EXECUTIVE SUMMARY

4. VOICE OF CUSTOMERS

5. GLOBAL VPX SBC MARKET OUTLOOK

- 5.1. Market Size & Forecast
 - 5.1.1. By Value
- 5.2. Market Share & Forecast
 - 5.2.1. By Processor (NXP power architecture, Intel, ARM, and others)
 - 5.2.2. By Rack Unit (3U and 6U)
 - 5.2.3. By Application (Electronic Warfare, Radars, Mission Computers, ISR, and Others)
 - 5.2.4. By End-use (Defense, Aerospace, Commercial, Industrial, and Others)
 - 5.2.5. By Region
- 5.3. By Company (2023)
- 5.4. Market Map

6. NORTH AMERICA VPX SBC MARKET OUTLOOK

- 6.1. Market Size & Forecast
 - 6.1.1. By Value
- 6.2. Market Share & Forecast
 - 6.2.1. By Processor
 - 6.2.2. By Rack Unit
 - 6.2.3. By Application
 - 6.2.4. By End-User
 - 6.2.5. By Country
- 6.3. North America: Country Analysis
 - 6.3.1. United States Vpx Sbc Market Outlook
 - 6.3.1.1. Market Size & Forecast
 - 6.3.1.1.1. By Value
 - 6.3.1.2. Market Share & Forecast
 - 6.3.1.2.1. By Processor
 - 6.3.1.2.2. By Rack Unit
 - 6.3.1.2.3. By Application
 - 6.3.1.2.4. By End-User
 - 6.3.2. Canada Vpx Sbc Market Outlook
 - 6.3.2.1. Market Size & Forecast
 - 6.3.2.1.1. By Value
 - 6.3.2.2. Market Share & Forecast
 - 6.3.2.2.1. By Processor
 - 6.3.2.2.2. By Rack Unit
 - 6.3.2.2.3. By Application
 - 6.3.2.2.4. By End-User
 - 6.3.3. Mexico Vpx Sbc Market Outlook
 - 6.3.3.1. Market Size & Forecast
 - 6.3.3.1.1. By Value
 - 6.3.3.2. Market Share & Forecast
 - 6.3.3.2.1. By Processor
 - 6.3.3.2.2. By Rack Unit
 - 6.3.3.2.3. By Application
 - 6.3.3.2.4. By End-User

7. ASIA-PACIFIC VPX SBC MARKET OUTLOOK

- 7.1. Market Size & Forecast
 - 7.1.1. By Value

- 7.2. Market Share & Forecast
 - 7.2.1. By Processor
 - 7.2.2. By Rack Unit
 - 7.2.3. By Application
 - 7.2.4. By End-User
 - 7.2.5. By Country
- 7.3. Asia-Pacific: Country Analysis
 - 7.3.1. China Vpx Sbc Market Outlook
 - 7.3.1.1. Market Size & Forecast
 - 7.3.1.1.1. By Value
 - 7.3.1.2. Market Share & Forecast
 - 7.3.1.2.1. By Processor
 - 7.3.1.2.2. By Rack Unit
 - 7.3.1.2.3. By Application
 - 7.3.1.2.4. By End-User
 - 7.3.2. India Vpx Sbc Market Outlook
 - 7.3.2.1. Market Size & Forecast
 - 7.3.2.1.1. By Value
 - 7.3.2.2. Market Share & Forecast
 - 7.3.2.2.1. By Processor
 - 7.3.2.2.2. By Rack Unit
 - 7.3.2.2.3. By Application
 - 7.3.2.2.4. By End-User
 - 7.3.3. Japan Vpx Sbc Market Outlook
 - 7.3.3.1. Market Size & Forecast
 - 7.3.3.1.1. By Value
 - 7.3.3.2. Market Share & Forecast
 - 7.3.3.2.1. By Processor
 - 7.3.3.2.2. By Rack Unit
 - 7.3.3.2.3. By Application
 - 7.3.3.2.4. By End-User
 - 7.3.4. South Korea Vpx Sbc Market Outlook
 - 7.3.4.1. Market Size & Forecast
 - 7.3.4.1.1. By Value
 - 7.3.4.2. Market Share & Forecast
 - 7.3.4.2.1. By Processor
 - 7.3.4.2.2. By Rack Unit
 - 7.3.4.2.3. By Application
 - 7.3.4.2.4. By End-User

7.3.5. Indonesia Vpx Sbc Market Outlook

7.3.5.1. Market Size & Forecast

7.3.5.1.1. By Value

7.3.5.2. Market Share & Forecast

7.3.5.2.1. By Processor

7.3.5.2.2. By Rack Unit

7.3.5.2.3. By Application

7.3.5.2.4. By End-User

8. EUROPE VPX SBC MARKET OUTLOOK

8.1. Market Size & Forecast

8.1.1. By Value

8.2. Market Share & Forecast

8.2.1. By Processor

8.2.2. By Rack Unit

8.2.3. By Application

8.2.4. By End-User

8.2.5. By Country

8.3. Europe: Country Analysis

8.3.1. Germany Vpx Sbc Market Outlook

8.3.1.1. Market Size & Forecast

8.3.1.1.1. By Value

8.3.1.2. Market Share & Forecast

8.3.1.2.1. By Processor

8.3.1.2.2. By Rack Unit

8.3.1.2.3. By Application

8.3.1.2.4. By End-User

8.3.2. United Kingdom Vpx Sbc Market Outlook

8.3.2.1. Market Size & Forecast

8.3.2.1.1. By Value

8.3.2.2. Market Share & Forecast

8.3.2.2.1. By Processor

8.3.2.2.2. By Rack Unit

8.3.2.2.3. By Application

8.3.2.2.4. By End-User

8.3.3. France Vpx Sbc Market Outlook

8.3.3.1. Market Size & Forecast

8.3.3.1.1. By Value

- 8.3.3.2. Market Share & Forecast
 - 8.3.3.2.1. By Processor
 - 8.3.3.2.2. By Rack Unit
 - 8.3.3.2.3. By Application
 - 8.3.3.2.4. By End-User
- 8.3.4. Russia Vpx Sbc Market Outlook
 - 8.3.4.1. Market Size & Forecast
 - 8.3.4.1.1. By Value
 - 8.3.4.2. Market Share & Forecast
 - 8.3.4.2.1. By Processor
 - 8.3.4.2.2. By Rack Unit
 - 8.3.4.2.3. By Application
 - 8.3.4.2.4. By End-User
- 8.3.5. Spain Vpx Sbc Market Outlook
 - 8.3.5.1. Market Size & Forecast
 - 8.3.5.1.1. By Value
 - 8.3.5.2. Market Share & Forecast
 - 8.3.5.2.1. By Processor
 - 8.3.5.2.2. By Rack Unit
 - 8.3.5.2.3. By Application
 - 8.3.5.2.4. By End-User

9. SOUTH AMERICA VPX SBC MARKET OUTLOOK

- 9.1. Market Size & Forecast
 - 9.1.1. By Value
- 9.2. Market Share & Forecast
 - 9.2.1. By Processor
 - 9.2.2. By Rack Unit
 - 9.2.3. By Application
 - 9.2.4. By End-User
 - 9.2.5. By Country
- 9.3. South America: Country Analysis
 - 9.3.1. Brazil Vpx Sbc Market Outlook
 - 9.3.1.1. Market Size & Forecast
 - 9.3.1.1.1. By Value
 - 9.3.1.2. Market Share & Forecast
 - 9.3.1.2.1. By Processor
 - 9.3.1.2.2. By Rack Unit

- 9.3.1.2.3. By Application
- 9.3.1.2.4. By End-User
- 9.3.2. Argentina Vpx Sbc Market Outlook
 - 9.3.2.1. Market Size & Forecast
 - 9.3.2.1.1. By Value
 - 9.3.2.2. Market Share & Forecast
 - 9.3.2.2.1. By Processor
 - 9.3.2.2.2. By Rack Unit
 - 9.3.2.2.3. By Application
 - 9.3.2.2.4. By End-User

10. MIDDLE EAST & AFRICA VPX SBC MARKET OUTLOOK

- 10.1. Market Size & Forecast
 - 10.1.1. By Value
- 10.2. Market Share & Forecast
 - 10.2.1. By Processor
 - 10.2.2. By Rack Unit
 - 10.2.3. By Application
 - 10.2.4. By End-User
 - 10.2.5. By Country
- 10.3. Middle East & Africa: Country Analysis
 - 10.3.1. Saudi Arabia Vpx Sbc Market Outlook
 - 10.3.1.1. Market Size & Forecast
 - 10.3.1.1.1. By Value
 - 10.3.1.2. Market Share & Forecast
 - 10.3.1.2.1. By Processor
 - 10.3.1.2.2. By Rack Unit
 - 10.3.1.2.3. By Application
 - 10.3.1.2.4. By End-User
 - 10.3.2. South Africa Vpx Sbc Market Outlook
 - 10.3.2.1. Market Size & Forecast
 - 10.3.2.1.1. By Value
 - 10.3.2.2. Market Share & Forecast
 - 10.3.2.2.1. By Processor
 - 10.3.2.2.2. By Rack Unit
 - 10.3.2.2.3. By Application
 - 10.3.2.2.4. By End-User
 - 10.3.3. UAE Vpx Sbc Market Outlook

- 10.3.3.1. Market Size & Forecast
 - 10.3.3.1.1. By Value
- 10.3.3.2. Market Share & Forecast
 - 10.3.3.2.1. By Processor
 - 10.3.3.2.2. By Rack Unit
 - 10.3.3.2.3. By Application
 - 10.3.3.2.4. By End-User
- 10.3.4. Israel Vpx Sbc Market Outlook
 - 10.3.4.1. Market Size & Forecast
 - 10.3.4.1.1. By Value
 - 10.3.4.2. Market Share & Forecast
 - 10.3.4.2.1. By Processor
 - 10.3.4.2.2. By Rack Unit
 - 10.3.4.2.3. By Application
 - 10.3.4.2.4. By End-User
- 10.3.5. Egypt Vpx Sbc Market Outlook
 - 10.3.5.1. Market Size & Forecast
 - 10.3.5.1.1. By Value
 - 10.3.5.2. Market Share & Forecast
 - 10.3.5.2.1. By Processor
 - 10.3.5.2.2. By Rack Unit
 - 10.3.5.2.3. By Application
 - 10.3.5.2.4. By End-User

11. MARKET DYNAMICS

- 11.1. Drivers
- 11.2. Challenge

12. MARKET TRENDS & DEVELOPMENTS

13. COMPANY PROFILES

- 13.1. Abaco Team SpA
 - 13.1.1. Business Overview
 - 13.1.2. Key Revenue and Financials
 - 13.1.3. Recent Developments
 - 13.1.4. Key Personnel
 - 13.1.5. Key Product/Services

13.2. Extreme Engineering Solutions, Inc

- 13.2.1. Business Overview
- 13.2.2. Key Revenue and Financials
- 13.2.3. Recent Developments
- 13.2.4. Key Personnel
- 13.2.5. Key Product/Services

13.3. Aitech

- 13.3.1. Business Overview
- 13.3.2. Key Revenue and Financials
- 13.3.3. Recent Developments
- 13.3.4. Key Personnel
- 13.3.5. Key Product/Services

13.4. Curtiss-Wright Corporation

- 13.4.1. Business Overview
- 13.4.2. Key Revenue and Financials
- 13.4.3. Recent Developments
- 13.4.4. Key Personnel
- 13.4.5. Key Product/Services

13.5. Mercury Systems, Inc.

- 13.5.1. Business Overview
- 13.5.2. Key Revenue and Financials
- 13.5.3. Recent Developments
- 13.5.4. Key Personnel
- 13.5.5. Key Product/Services

13.6. Concurrent Technologies Plc

- 13.6.1. Business Overview
- 13.6.2. Key Revenue and Financials
- 13.6.3. Recent Developments
- 13.6.4. Key Personnel
- 13.6.5. Key Product/Services

13.7. Mistral Solutions Pvt. Ltd.

- 13.7.1. Business Overview
- 13.7.2. Key Revenue and Financials
- 13.7.3. Recent Developments
- 13.7.4. Key Personnel
- 13.7.5. Key Product/Services

13.8. Kontron Europe GmbH

- 13.8.1. Business Overview
- 13.8.2. Key Revenue and Financials

13.8.3. Recent Developments

13.8.4. Key Personnel

13.8.5. Key Product/Services

13.9. ADLINK Technology Inc.

13.9.1. Business Overview

13.9.2. Key Revenue and Financials

13.9.3. Recent Developments

13.9.4. Key Personnel

13.9.5. Key Product/Services

13.10. Connect Tech Inc.

13.10.1. Business Overview

13.10.2. Key Revenue and Financials

13.10.3. Recent Developments

13.10.4. Key Personnel

13.10.5. Key Product/Services

14. STRATEGIC RECOMMENDATIONS

15. ABOUT US & DISCLAIMER

I would like to order

Product name: Vpx Sbc Market – Global Industry Size, Share, Trends, Opportunity, and Forecast Segmented by Processor (NXP power architecture, Intel, ARM, and others), By Rack Unit (3U and 6U), By Application (Electronic Warfare, Radars, Mission Computers, ISR, and Others), By End-use (Defense, Aerospace, Commercial, Industrial, and Others), By Region & Competition, 2019-2029F

Product link: <https://marketpublishers.com/r/VADBE227B8AAEN.html>

Price: US\$ 4,500.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/VADBE227B8AAEN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below
and fax the completed form to +44 20 7900 3970