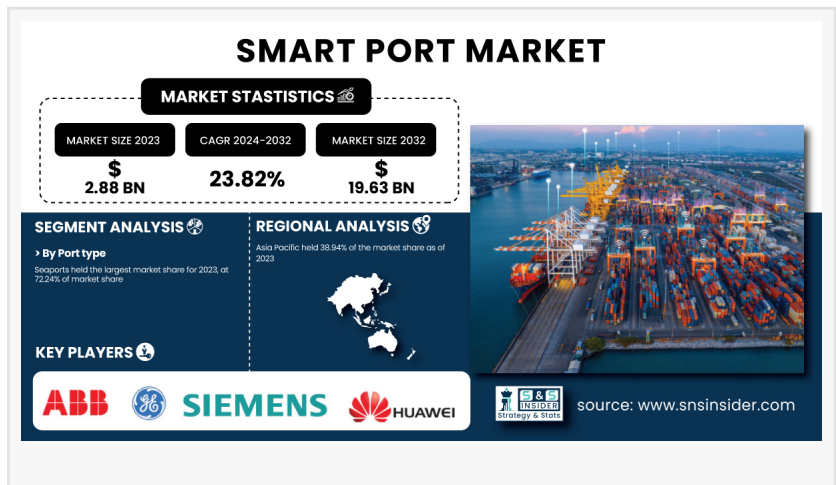


Smart Port Market Set to Reach USD 19.63 Billion by 2032 | SNS Insider

The Smart Port Market was valued at USD 2.88 Bn in 2023 and is projected to reach USD 19.63 Bn by 2032, growing at a CAGR of 23.82% from 2024 to 2032.

AUSTIN, TX, UNITED STATES, February 17, 2025 /EINPresswire.com/ -- "The [Smart Port Market](#) is expanding rapidly, driven by automation, IoT, AI technologies, and growth in seaport and inland port efficiency."

The Smart Port Market was valued at USD 2.88 Billion in 2023 and is projected to reach USD 19.63 Billion by 2032, growing at a CAGR of 23.82% from 2024 to 2032. Key factors driving this growth include the increasing adoption of automation, IoT, and AI technologies to improve port operations, efficiency, and security. The market also benefits from expanding global trade and the demand for enhanced logistics and supply chain management, leading to a substantial transformation in port infrastructure and services.



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Some of Major Keyplayers:

- ABB (Automation Systems, Electric Solutions)
- Siemens (Port Management Software, Electrical Infrastructure)
- IBM (AI Solutions, Blockchain Port Platforms)
- Huawei (5G Connectivity Solutions, Cloud Services)
- General Electric (IoT Platforms, Smart Grid Solutions)
- Schneider Electric (Energy Management Systems, Automation Tools)
- Cisco Systems (Network Solutions, Cybersecurity Platforms)
- Kongsberg Gruppen (Maritime Automation, Remote Operations)
- Accenture (Digital Transformation Services, Data Analytics)
- Wartsila (Port Optimization Software, Energy Systems)
- Navis (Terminal Operating Systems, Predictive Analytics)

- Trelleborg Marine Systems (Docking Solutions, Mooring Systems)
- CyberLogitec (Terminal Management Software, Logistics Solutions)
- Kalmar (Container Handling Equipment, Automated Crane Systems)
- Cavotec (Automated Mooring Systems, Electric Charging Systems)
- SAP SE (Supply Chain Software, Port Operations Management)
- Royal HaskoningDHV (Port Design Services, Simulation Tools)
- IndigoVision (Surveillance Systems, Port Security Solutions)
- Microsoft (Cloud Platforms, AI-based Solutions)
- Honeywell (Operational Management Systems, Safety Solutions)

By Port Type, Seaports Dominate Smart Port Market with 72.24% Share in 2023, Driven by Advanced Automation and Sustainable Technologies

Seaports led the Smart Port Market in 2023 with a 72.24% share, as they play a pivotal role in international trade. Seaports combine innovative technologies such as AI-based cargo management and real-time tracking, making them more efficient and sustainable. As global commerce centers, seaports are transforming to include complete automation, propelling their leadership in the smart port market.

Inland ports are projected to expand at a strong CAGR of 24.12% during the period 2024-2032. The expansion is driven by the growth of e-commerce, intermodal usage, and demand for improved cargo handling to avoid congestion in seaports. The construction of strategic inland ports along major transportation hubs, as well as expanded IoT and automation deployment, will play a crucial role in expanding the smart port market.

By Technology, IoT Dominates Smart Port Market in 2023, Revolutionizing Operations with Real-Time Data and Predictive Maintenance

The Internet of Things space led the Smart Port Market in 2023 because it transforms port operations with the capability of free data transfer and real-time monitoring. Devices and sensors through IoT offer tangible information on movement of cargo, equipment condition, and environmental performance, improving operating efficiency and making decisions. IoT also has a significant role in predictive maintenance, decreasing downtime, and optimizing resource management. With terminals processing increasing cargo volumes, integration of IoT technology facilitates efficient processing, enhances security, and improves sustainability, placing it as an integral part for contemporary, high-performance smart ports.

By Element, Terminal Automation & Cargo Handling Leads Smart Port Market in 2023, Driving Efficiency and Reducing Operational Costs

The Terminal Automation & Cargo Handling segment dominated the Smart Port Market in 2023 due to its critical role in enhancing port efficiency and reducing operational costs. Automated systems, such as robotic cranes and automated guided vehicles (AGVs), improve cargo handling

speed, reduce human errors, and increase throughput. By streamlining container movement and minimizing bottlenecks, this technology enables faster turnaround times and higher productivity. With the growing demand for efficiency in global trade, terminal automation is essential for ports to remain competitive, making it a central component of smart port transformation.

By Throughput Capacity, Extremely Busy Ports Lead with 49.77% Market Share in 2023, Moderately Busy Ports to Experience Rapid Growth at 24.19% CAGR

Extremely busy ports held the largest share of the market in 2023, accounting for 49.77%. These ports handle larger cargo volumes and adopt smarter technologies like predictive maintenance and automated cargo handling systems to manage higher throughput. The integration of 5G connectivity and AI-based scheduling tools further enhances their operational efficiency and capacity.

Moderately busy ports, handling 5–18 million TEUs, are expected to grow at the fastest CAGR of 24.19% from 2024 to 2032. The modernization of mid-tier ports, driven by significant investments, is boosting this growth, enabling them to compete with larger ports. Key advancements like smart systems reduce operational bottlenecks and enhance turnaround times, making these ports more efficient and competitive in the global logistics network.

Smart Port Market Segmentation:

BY PORT TYPE

- Seaport
- Inland Port

BY TECHNOLOGY

- Internet of Things (IoT)
- Blockchain
- Process Automation
- Artificial Intelligence (AI)

BY ELEMENT

- Terminal Automation & Cargo Handling
- Port Community Systems (PCS)
- Smart Safety & Security
- Traffic Management Systems (TMS)
- Smart Port Infrastructure

BY THROUGHPUT CAPACITY

- Extensively Busy Ports (Above 18 million TEU)
- Moderately Busy Ports (5–18 million TEU)
- Scarcely Busy Ports (Below 5 million TEU)

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Asia Pacific Dominates Smart Port Market with 38.94% Share in 2023, Asia Pacific Poised for Robust Growth at 24.28% CAGR from 2024 to 2032

Asia Pacific had a 38.94% market share in the Smart Port Market in 2023 due to high investments in port modernization in China, Japan, and India. The strategic positioning of the region, with major shipping lanes such as the Malacca Strait and more than 40 busy ports, carries 30% of international trade. The use of cutting-edge technologies such as blockchain, AI, and IoT in these ports has made Asia Pacific a dominant force in the international market.

Asia Pacific is expected to expand at a robust CAGR of 24.28% during 2024-2032. The expansion is fueled by escalating trade operations, government initiatives to digitalize and automate ports, and high priority on sustainability and green technology. All these correspond with international efforts towards making maritime industries greener, and in this context, the region is set to be a major force in the Smart Port Market's future growth.

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we employ a variety of techniques, including surveys, video talks, and focus groups around the world.

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