

Passenger Information System Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, 2018-2028F Segmented by Component (Hardware, Software, Service), By Location (On Board, In Station), By Solution Type (Passenger Information Display Systems, Passenger Information Announcement Systems, Emergency Communication Systems, Infotainment Systems, Passenger Information Mobile Application), By Mode of Transportation (Railways, Roadways, Airways, Waterways), By Region, Competition

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Abstracts

The projected market size for Passenger Information Systems is expected to reach USD 26.47 billion by the end of 2023, with a compound annual growth rate (CAGR) of 12.62% during the forecast period. The global passenger information system (PIS) market is experiencing robust growth driven by urbanization, technological advancements, and the demand for enhanced travel experiences. PIS leverages real-time connectivity, IoT sensors, and data analytics to provide passengers with accurate and personalized information on schedules, routes, and service disruptions. It aligns with smart city initiatives and addresses the need for efficient and sustainable urban mobility. PIS adoption is fueled by the growing emphasis on contactless solutions, mobile apps, and seamless interactions. As cities strive for smarter transportation networks, PIS plays a pivotal role in reshaping public transit, improving passenger satisfaction, and contributing to the evolution of modern urban transportation systems.

Key Market Drivers

The Increasing Adoption of Smartphones

The rapid proliferation of smartphones is exerting a significant and transformative impact on the global passenger information system (PIS) market. As smartphone adoption continues to soar worldwide, these ubiquitous handheld devices have emerged as powerful tools that are reshaping the way passengers access and interact with transportation information. The increasing integration of PIS with mobile applications and platforms is seamlessly connecting travelers to real-time updates, schedules, routes, and service alerts right at their fingertips. In addition, the convenience and versatility of smartphones have led to a fundamental shift in passenger behavior and expectations. Travelers now demand instant access to accurate and personalized travel information, allowing them to make informed decisions on the go. PIS providers have recognized this trend and have capitalized on the smartphone's capabilities to deliver enhanced experiences. Mobile apps equipped with GPS functionality can determine a passenger's current location and provide tailored directions to the nearest stops, optimal routes, and estimated arrival times. This level of granular and personalized information empowers passengers, making their journeys more predictable, efficient, and stress-free.

Moreover, the symbiotic relationship between smartphone adoption and the PIS market is further exemplified by the ability of these devices to deliver real-time updates and notifications. Passengers are promptly alerted to service disruptions, delays, and alternate routes, enabling them to adapt their travel plans accordingly. The seamless flow of information ensures that passengers are better equipped to manage unexpected changes, ultimately fostering a more positive perception of public transportation and encouraging its use. Moreover, the ubiquity of smartphones is blurring the lines between digital and physical spaces, enabling innovative features such as mobile ticketing and contactless payments. By integrating payment options within PIS mobile applications, passengers can easily purchase tickets and access transportation services without the need for physical cards or cash. This not only simplifies the payment process but also contributes to the overall efficiency of public transportation systems.

In conclusion, the surging adoption of smartphones is undeniably propelling the global passenger information system market to new heights. As these devices become an integral part of passengers' lives, PIS providers are leveraging their capabilities to deliver seamless, personalized, and real-time travel information, ultimately enhancing the overall passenger experience and revolutionizing the way people engage with public

transportation systems.

The Rise in Adoption of Cloud & Big Data Technologies

The global passenger information system (PIS) market is undergoing a transformative shift propelled by the widespread adoption of cloud and big data technologies. These advancements are revolutionizing the way transportation information is managed, processed, and delivered to passengers. Cloud-based solutions offer unprecedented scalability, flexibility, and cost-effectiveness to PIS providers, enabling them to efficiently store, process, and manage vast amounts of data generated by various transportation systems in real-time. In addition, the integration of big data analytics further amplifies the impact of cloud technology on the PIS market. As transportation networks continue to expand and evolve, an immense volume of data is generated from sources such as ticketing systems, GPS devices, sensors, and social media platforms. Big data analytics leverages this wealth of information to derive actionable insights, uncover patterns, and predict passenger behavior. This enables PIS providers to optimize route planning, anticipate demand, and enhance operational efficiency, leading to improved service reliability and passenger satisfaction. Cloud-based PIS solutions also facilitate seamless data sharing and collaboration among various stakeholders within the transportation ecosystem. Public transit agencies, authorities, and private operators can securely access and exchange real-time information, allowing for more effective coordination, resource allocation, and service adjustments. Passengers benefit from this interconnectedness as well, receiving accurate and consistent travel updates regardless of their location or chosen transportation mode.

Furthermore, the scalability of cloud and big data technologies ensures that PIS can accommodate the growing demand for personalized and real-time information. As passengers increasingly rely on smartphones and mobile devices to access travel updates, cloud-based PIS platforms enable the rapid development of user-friendly mobile applications that deliver tailored information, directions, and alerts. While the rise of cloud and big data technologies presents numerous opportunities for the PIS market, challenges such as data security, privacy concerns, and interoperability must also be addressed. Ensuring the safeguarding of sensitive passenger information and establishing standardized data-sharing protocols will be crucial to building trust and fostering collaboration among stakeholders.

In conclusion, the surge in the adoption of cloud and big data technologies is reshaping the global passenger information system market by revolutionizing data management, analytics, and collaboration. These advancements empower PIS providers to deliver

enhanced, personalized, and real-time travel information to passengers while also enabling more efficient operations and informed decision-making across the transportation landscape. As the PIS market continues to evolve, the integration of cloud and big data technologies will remain pivotal in driving innovation and improving the overall passenger experience.

The Growing Demand for Contactless Solutions

The global passenger information system (PIS) market is significantly driven by the escalating need for contactless solutions. The surge in demand can be attributed to the coronavirus pandemic and evolving consumer preferences, prompting travelers to opt for touchless alternatives when accessing travel information and making payments. PIS serves as a crucial enabler, addressing this demand by facilitating contactless ticketing, granting mobile app-based access to real-time travel updates, and establishing virtual channels for communication with transportation providers. Beyond enhancing passenger safety and convenience, these contactless capabilities align seamlessly with the broader trend toward digitization and effortless interactions. As health and hygiene remain paramount for travelers, integrating contactless solutions within PIS emerges as a vital component in the modernization of public transportation networks, ensuring a secure, streamlined, and technologically advanced travel experience.

Rising Urbanization and Congestion

The escalating global trend of urbanization, coupled with mounting urban congestion, is a compelling driving force propelling the growth of the global passenger information system (PIS) market. As cities expand and populations concentrate in urban areas, the demand for efficient and well-coordinated public transportation systems intensifies. PIS emerges as a vital solution in managing passenger flow, alleviating congestion, and optimizing travel routes, effectively addressing the challenges posed by rapid urbanization. By providing real-time travel updates, route planning, and seamless interactions, PIS contributes significantly to enhancing commuter experiences and ensuring smoother, more sustainable urban mobility amidst the constraints of increasing urbanization and congestion.

Key Market Challenges

Data Security and Privacy Concerns

Data security and privacy concerns present significant obstacles to the advancement of

the global passenger information system (PIS) market. With PIS collecting and disseminating sensitive passenger data, ensuring the protection of personal information becomes paramount. The potential risks of unauthorized access, data breaches, and misuse of passenger data can erode public trust and hinder PIS adoption. Striking a balance between providing real-time travel updates and safeguarding passenger privacy is a complex challenge. PIS providers must implement robust encryption, authentication measures, and data anonymization techniques to mitigate risks. Addressing these concerns is essential for fostering passenger confidence, meeting regulatory requirements, and establishing a solid foundation for the expansion of PIS technologies in the evolving landscape of public transportation.

Stringent Transportation Regulatory Policies

Stringent transportation regulatory policies have emerged as a notable hindrance to the global passenger information system (PIS) market's growth trajectory. While PIS solutions aim to streamline travel experiences and enhance passenger satisfaction, rigid regulatory frameworks in certain regions can impede their implementation. Complex approval processes and compliance requirements may lead to delays in deploying PIS technologies, hampering their timely integration into transportation networks. Moreover, varying regulatory standards across different jurisdictions can create challenges for seamless interoperability and data sharing between different modes of transportation. Addressing these regulatory obstacles is crucial to unlocking the full potential of PIS and ensuring its effective adoption on a global scale, enabling passengers to benefit from enhanced travel information and experiences.

Key Market Trends

The Integration of IoT and Real-time Connectivity

The integration of Internet of Things (IoT) technology and real-time connectivity is a significant driving force behind the global passenger information system (PIS) market. By harnessing IoT sensors and interconnected devices, PIS can provide passengers with instant access to accurate and dynamic travel updates. Real-time connectivity ensures that information on schedules, routes, delays, and service disruptions is readily available to passengers, enabling them to make informed decisions and plan their journeys effectively. This trend not only enhances the overall passenger experience by reducing uncertainty and minimizing travel disruptions but also aligns with the modern expectation for instantaneous and personalized information. As the demand for real-time connectivity continues to rise, PIS systems that seamlessly integrate IoT

capabilities are poised to play a pivotal role in transforming public transportation into a more efficient, convenient, and passenger-centric mode of travel.

Smart City Initiatives

Smart city initiatives are exerting a significant driving influence on the global passenger information system (PIS) market. As cities worldwide strive to enhance urban mobility and sustainability, PIS plays a crucial role in achieving these goals. By providing real-time travel updates, optimizing transportation operations, and promoting efficient use of public transit, PIS aligns seamlessly with the broader objectives of smart city development. These initiatives emphasize interconnectedness, data-driven insights, and seamless travel experiences for residents and visitors. The integration of PIS within smart city ecosystems enhances transportation efficiency, reduces traffic congestion, and supports eco-friendly modes of travel, contributing to the overall livability and connectivity of modern urban environments. As smart city initiatives continue to gain momentum, the adoption and expansion of PIS technologies are poised to play an integral role in shaping the future of urban transportation.

Segmental Insights

Solution Insights

Based on the solution, passenger information display systems consistently dominate this segmentation across the entire forecast period. These systems, characterized by strategically positioned digital signage and information boards, provide real-time updates on schedules, routes, and disruptions, elevating passenger convenience and informed decision-making. Their pivotal role in creating a seamless and engaging travel experience solidifies their prominence, driving the modernization of public transportation networks. As passengers increasingly seek immediate, data-driven travel insights, the enduring dominance of passenger information display systems underscores their indispensable contribution to the dynamic landscape of the global PIS market.

Mode of Transportation Insights

Based on mode of transportation, railways mode of transportation emerges as the predominant segment, exercising steadfast dominance throughout the forecast period. This dominance can be attributed to several factors. Railways serve as a backbone of public transit in many regions, offering a reliable and cost-effective means of transportation for both urban and intercity travel. PIS integration with railways enhances

the overall passenger experience by providing real-time updates on train schedules, platforms, delays, and connecting services. The seamless dissemination of accurate information improves passenger convenience, reduces wait times, and mitigates travel uncertainties. Furthermore, the extensive and well-established railway networks in various countries provide a conducive environment for the implementation of advanced PIS technologies. As urbanization drives the demand for efficient and sustainable transportation solutions, the integration of PIS with railways underscores its pivotal role in shaping the modernization and optimization of public transit systems, making rail travel more accessible, dependable, and passenger-centric.

Regional Insights

North America holds a prominent position in the global Passenger Information System (PIS) market due to its advanced technological landscape, well-established transportation infrastructure, and commitment to enhancing the passenger experience. The region's high internet penetration and cutting-edge digital solutions facilitate seamless PIS integration across diverse transportation modes. North America's emphasis on efficient urban mobility, safety, and real-time information dissemination aligns with PIS objectives, fostering an environment conducive to market growth. The presence of leading technology providers, innovative startups, and research institutions further accelerates the development and deployment of state-of-the-art PIS solutions, solidifying North America's influential role in shaping the future of modern transportation systems.

Key Market Players

Huawei Technologies Co., Ltd.

Thales Group

Advantech Co., Ltd.

Wabtec Corporation

Cubic Transportation Systems

Siemens AG

Alstom Transport SA

Cisco Systems, Inc.

Hitachi, Ltd.

TE Connectivity Corporation

Report Scope:

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

Global Passenger Information System Market, By Component:

Hardware

Software

Service

Global Passenger Information System Market, By Location:

On Board

In Station

Global Passenger Information System Market, By Solution Type:

Passenger Information Display Systems

Passenger Information Announcement Systems

Emergency Communication Systems

Infotainment Systems

Passenger Information Mobile Application

Global Passenger Information System Market, By Mode of Transportation:

Railways

Roadways

Airways

Waterways

Global Passenger Information System Market, By Region:

North America

Europe

South America

Middle East & Africa

Asia Pacific

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Passenger Information System Market.

Available Customizations:

Global Passenger Information System market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

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