

Airport Passenger Boarding Bridge Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025 - 2034

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Abstracts

The Global Airport Passenger Boarding Bridge Market was valued at USD 2.12 billion in 2024 and is projected to grow at a CAGR of 7% from 2025 to 2034. The growth of this market is driven by the continuous rise in air passenger traffic, which urges airports to upgrade their infrastructure. As airports become busier, there is an increasing need for efficient, automated solutions that can streamline boarding processes.

Automated passenger boarding bridges are at the forefront of this transformation. By incorporating cutting-edge technologies such as sensors, artificial intelligence (AI), and the Internet of Things (IoT), automated PBBs facilitate smoother aircraft docking and seamless boarding operations without requiring manual intervention. These systems not only reduce turnaround times but also improve operational efficiency, reduce delays, and elevate the overall passenger experience, particularly in high-traffic airports where quick boarding is essential.

The market is divided into moving and fixed passenger boarding bridges. In 2024, moving PBBs took the largest share, accounting for 67.3%. These bridges are known for their flexibility and adaptability to various aircraft sizes, making them ideal for airports with fluctuating traffic volumes. Their ability to adjust and accommodate different boarding needs enables quicker operations and reduces overall boarding time, a key factor in improving airport efficiency and reducing delays. The continued rise in air travel and the increasing demand for rapid boarding solutions are key factors that are bolstering the adoption of moving PBBs in modern airports worldwide.

In terms of bridge types, the market further categorizes into hydraulic, electrical, and fixed tunnel bridges. Among these, the electrical bridge segment is projected to

experience the fastest growth, with a CAGR of 8.4% during the forecast period. Electrical PBBs are gaining traction for their energy efficiency and environmentally friendly characteristics, making them a preferred choice for airports aiming to meet sustainability targets. These systems reduce energy consumption, lower maintenance costs, and operate quietly, offering significant benefits over traditional hydraulic bridges. The global push towards eco-friendly technology and stricter environmental regulations are major drivers of this growth, with airports seeking ways to enhance their green credentials while optimizing their operations.

In North America, the airport passenger boarding bridge market is expected to generate USD 1.4 billion by 2034. This growth is attributed to the ongoing modernization and expansion of major airports across the region to accommodate the increasing number of air travelers. The emphasis on automation, AI integration, and energy-efficient solutions is transforming boarding processes, thus driving the adoption of electric-powered bridges and AI-enabled systems that minimize maintenance costs. Airports are increasingly adopting these innovative technologies to boost operational efficiency, reduce costs, and meet sustainability goals, contributing to the overall expansion of the airport passenger boarding bridge market in North America.

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