

Asia Pacific Vehicle-to-Infrastructure (V2I) Communication Market Size study, By Component (Hardware, Software, Services), By Application (Dedicated Short-Range Communications, Cellular, Wi-Fi, WiMAX, Bluetooth) and Country Forecasts 2022-2032

<https://marketpublishers.com/r/A6C8477ECE1AEN.html>

Date: July 2024

Pages: 200

Price: US\$ 4,950.00 (Single User License)

ID: A6C8477ECE1AEN

Abstracts

Asia Pacific Vehicle-to-Infrastructure (V2I) Communication Market is valued at approximately USD 70 million in 2023 and is anticipated to grow with a healthy growth rate of more than 34.53% over the forecast period 2024-2032. Vehicle-to-Infrastructure (V2I) communication is a technology that enables automobiles to interact and share data with infrastructure elements such as traffic signals, road signs, and other vehicles. V2I communication's key goals are to improve road safety, reduce traffic congestion, promote environmental sustainability, and improve the overall driving experience. Furthermore, rising focus on road safety are gaining attention towards Asia Pacific Vehicle-to-Infrastructure (V2I) Communication Market. V2I communication enhances road safety by providing real-time information on traffic signals, road conditions, and potential hazards. Countries are increasingly adopting V2I technologies to reduce accidents and fatalities on the roads.

The Asia Pacific Vehicle-to-Infrastructure (V2I) Communication Market is driven by a growing rate of urbanization and deployment of 5G networks across the region. Urbanization leads to a higher concentration of people and vehicles in cities, resulting in increased traffic congestion. V2I communication helps mitigate congestion by optimizing traffic flow through real-time data exchange between vehicles and infrastructure. This allows for dynamic traffic management, better coordination of traffic signals, and efficient routing, easing congestion in densely populated urban areas. In addition, 5G

technology provides the necessary bandwidth and low latency for real-time data exchange between vehicles and infrastructure, enabling more reliable and efficient V2I systems. Countries such as China and South Korea are leading in 5G deployment, fostering the growth of V2I communication. However, high expenses related to Vehicle-to-Infrastructure (V2I) Communication and less availability of V2I-enabled infrastructure is going to impede the overall demand for the market during the forecast period 2024-2032.

The key Countries considered for the Asia Pacific Vehicle-to-Infrastructure (V2I) Communication market study include China, India, Japan, South Korea, Australia and the Rest of Asia Pacific. In 2023, China was the largest regional market in terms of revenue owing to factors such as increasing demand of emission-free mobility across the region. Also, China's commitment to emission-free mobility includes substantial investments in smart infrastructure. This includes the deployment of V2I communication systems that support the integration of electric and autonomous vehicles into the transportation network. Furthermore, the market in India is expected to develop at the fastest rate over the forecast period 2024-2032.

Major market players included in this report are:

Huawei Technologies Co., Ltd

Samsung Electronics Co., Ltd

NEC Corporation

Company 4

Company 5

Company 6

Company 7

Company 8

Company 9

Company 10

The detailed segments and sub-segment of the market are explained below:

By Component

Hardware

Software

Services

By Application

Dedicated Short-Range Communications

Cellular
Wi-Fi
WiMAX
Bluetooth
By Region:
Asia Pacific
China
India
Japan
Australia
South Korea
RoAPAC

Years considered for the study are as follows:

Historical year – 2022

Base year – 2023

Forecast period – 2024 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenues and country level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market.

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