

Global 4G and 5G Network Access Device for Automotive T-Box Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global 4G and 5G Network Access Device for Automotive T-Box market size was valued at US\$ 1015 million in 2024 and is forecast to a readjusted size of USD 2043 million by 2031 with a CAGR of 9.3% during review period.

Network Access Device (NAD) is a core communication module in vehicular networking systems, primarily used in T-Boxes (Telematics Boxes) to enable efficient and secure communication between the vehicle and external networks. Beyond T-Boxes, NADs are widely applied in other critical automotive systems. In smart antenna modules, NADs optimize signal reception and transmission, ensuring stable connectivity. Within Advanced Driver Assistance Systems (ADAS), NADs facilitate real-time data transmission and processing from sensors, supporting features like automatic emergency braking and lane-keeping assistance, thereby enhancing driving safety and automation. Additionally, NADs play a crucial role in vehicular networking services, fleet management, and smart charging stations, providing users with more convenient, safe, and efficient travel experiences. 4G and 5G Network Access Devices are the most important product types, accounting for approximately 90% of the sales volume market share in 2024.

Network Access Devices (NADs), as a core component of Telematics Boxes (T-Boxes), are experiencing rapid growth and transformation. According to the latest market research, global NAD sales reached approximately 35 million units in 2024, with projections indicating this number will grow to 55 million units by 2031, demonstrating significant growth momentum. From a cost structure perspective, NADs account for 25% to 30% of the total T-Box cost. As communication technology transitions from 3G

and 4G to 5G, the average market price is expected to rise, further driving industry development. Notably, the NAD industry has a high market concentration, with the top six companies collectively holding over 80% of the global market share. Major players are actively expanding their market presence through strategic acquisitions and distributor network expansions.

For instance, on October 23, 2024, EUROPASOLAR S.r.l., headquartered in Luxembourg, successfully acquired part of the assets of Rolling Wireless (HK) Limited from Fibocom Wireless Inc. and the 100% equity of Rolling Wireless (Luxembourg) S.r.l. for \$150 million. This acquisition not only bolstered EUROPASOLAR's position in the cellular network access device (NAD) sector but also highlighted international investors' confidence in this high-growth industry. With advancements in connected vehicle technology and increasing market demand, the NAD market is set to continue its robust growth. Leading market participants are enhancing their competitiveness through strategic mergers and channel expansions, while technological upgrades and rising costs present new opportunities and challenges for the industry. In the coming years, the NAD sector is poised to play a crucial role in driving the global automotive industry's intelligent transformation.

This report is a detailed and comprehensive analysis for global 4G and 5G Network Access Device for Automotive T-Box market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global 4G and 5G Network Access Device for Automotive T-Box market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global 4G and 5G Network Access Device for Automotive T-Box market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global 4G and 5G Network Access Device for Automotive T-Box market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global 4G and 5G Network Access Device for Automotive T-Box market shares of main

players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2020-2025

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for 4G and 5G Network Access Device for Automotive T-Box

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global 4G and 5G Network Access Device for Automotive T-Box market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include LG Innotek, Continental, HARMAN, Wistron NeWeb Corp, Quectel, Rolling Wireless (EUROPASOLAR S.r.l.), SUNSEA, Telit Cinterion (Kontron), TITAN, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

4G and 5G Network Access Device for Automotive T-Box market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

4G

5G

Market segment by Application

Passenger Vehicle

Commercial Vehicle

Major players covered

LG Innotek

Continental

HARMAN

Wistron NeWeb Corp

Quectel

Rolling Wireless (EUROPASOLAR S.r.l.)

SUNSEA

Telit Cinterion (Kontron)

TITAN

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe 4G and 5G Network Access Device for Automotive T-Box product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of 4G and 5G Network Access Device for Automotive T-Box, with price, sales quantity, revenue, and global market share of 4G

and 5G Network Access Device for Automotive T-Box from 2020 to 2025.

Chapter 3, the 4G and 5G Network Access Device for Automotive T-Box competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the 4G and 5G Network Access Device for Automotive T-Box breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and 4G and 5G Network Access Device for Automotive T-Box market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of 4G and 5G Network Access Device for Automotive T-Box.

Chapter 14 and 15, to describe 4G and 5G Network Access Device for Automotive T-Box sales channel, distributors, customers, research findings and conclusion.

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