

Automotive Hypervisor Market by Type, Vehicle Type, End User, Level Of Autonomous Driving, Bus System (Controller Area Network (CAN), Local Interconnect Network (LIN), Ethernet, and FlexRay), Sales Channel and Region - Global Forecast to 2027

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Report description:

Automotive Hypervisor market, is projected to grow at a CAGR of 27.0% from 2022 to 2027, to reach USD 566 million by 2027 from USD 171 million in 2022. Due to the rise in the penetration of V2V, V2I features, demand in the hypervisor market is expected to rise.

"Integration of various automotive applications to support centralized function"

The foundation of the hypervisor was laid by technological advancements and innovations in the automotive industry such as the Internet of Things (IoT), telematics, autonomous vehicle, personal assistance, and Artificial Intelligence (AI) which are already implemented in vehicles and are expected to upgrade future automotive applications. The hypervisor technology is expected to play a key role in the evolution of autonomous vehicles and mobility services. ADAS has already proved to be a robust system and continues to be upgraded with improved versions. For instance, it has been upgraded with the vehicle-to-vehicle and vehicle-to-infrastructure communication technology for safety in 2019. Radio signals transmit traffic data from car to car to alert drivers about potential road hazards.

"Increasing complexity of electrical/electronic (E/E) architecture in modern vehicles"

Modern vehicles may have more than 80 ECUs including the powertrain control module (PCM), transmission control module (TCM), engine control module (ECM), general electronic module (GEM), brake control module (BCM), suspension control module (SCM), central timing module (CTM), body control module (BCM), and others. The adoption of electronic components in vehicles has increased rapidly during the last two decades and the pace is expected to accelerate further. This is expected to enable vehicle users to use features such as in-car payment services, on-road entertainment, and other connected services. The increasing

consumer preference for these features is a major factor driving the growth of the market. Moreover, stringent safety norms implemented by governments and legislative agencies have led automobile manufacturers to develop compatible and reliable software for various applications such as telematics, infotainment & communication systems, powertrain, body control & comfort, and ADAS & safety systems. These safety features rely significantly on inputs from ECUs and software platforms. Thus, the demand for electronics has increased at a rapid pace in the automotive industry, which, in turn, is expected to drive the growth of the market.

"Increasing use of innovative technologies in advanced user interface"

The human machine interface solution has transformed the automotive industry in recent years. The complexity in controlling and operating functions has been eliminated. This enhances the user experience. A user, with the help of an HMI solution, can easily control vehicle applications such as the music system, vehicle lights, and the infotainment system. HMI offers various convenience features to users such as heads-up display, rear seat entertainment systems, steering based controls, digital instrument clusters, voice recognition, and voice guidance. Earlier, the share of electronic systems in vehicles was only 1-2% of the cost of the vehicle. Due to the rising trend in enhanced user experience and convenience features, the share of the cost of electronic systems has increased to 8-12% of a vehicle.

"Increasing adoption of connected cars and advanced automotive technologies"

The increasing number of connected cars has opened new revenue generating opportunities for stakeholders in the connected car ecosystem. A high number of non-automotive players have joined the race in the development of connected cars and autonomous driving to leverage opportunities in revenue generation. Today's vehicles are no longer hardware-based moving machines. They comprise approximately 40% electronic systems which are expected to increase to more than 60% during the next few decades. A majority of electronic systems are expected to be dominated by domain controllers, consolidated ECUs, HMI, and AI for advanced vehicle applications such as ADAS, telematics, and engine management systems. These applications are required to be programmed with a significantly high number of lines of codes for proper functioning. As vehicles are being increasingly made technically advanced, the complexity of applications is increasing. As a result, systems are required to be programmed with a higher number of codes, which, in turn, is increasing the need for the embedded hypervisor technology.?

The study contains insights from various industry experts, ranging from component suppliers to tier 1 companies and OEMs. The break-up of the primaries is as follows:

-[]By Company Type: OEMs - 57%, Tier 1 - 29%, Tier 2 - 14%

- By Designation: CXOs - 54%, Directors - 32%, Others - 14%

- By Region: Asia Pacific- 32%, Europe - 36%, North America - 24%, RoW - 8%

Major players profiled in the report are Panasonic (Japan), NXP Semiconductors (Netherlands), Renesas Electronics (Japan), Blackberry (Canada), and Visteon Corporation (US).

Research Coverage

In this report, Automotive Hypervisor market is segmented into four major regions, namely, North America, Europe, Asia Pacific and Rest of the World. The report estimates the size of the automotive hypervisor market, by value, based on type (type 1 and type 2), by bus system (CAN, LIN, Ethernet and Flexray), by end user (economy vehicles, mid-priced vehicles and luxury vehicles), by vehicle type (passenger cars, LCVs and HCVs), by level of autonomous driving (semi-autonomous and autonomous vehicles) and by sales channel (OEM and Aftermarket).

Key Benefits of Buying the Report:

- The report will help market leaders/new entrants in this market with information on the closest approximations of revenue and volume numbers for the Automotive Hypervisor market and its sub segments.

This report will help stakeholders understand the competitive landscape and gain more insights to better position their businesses and plan suitable go-to-market strategies.

- The report also helps stakeholders understand the pulse of the market and provides them information on key market drivers, restraints, challenges, and opportunities.

Table of Contents:

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1[INTRODUCTION]27 1.1 STUDY OBJECTIVES 27 1.2 MARKET DEFINITION 27 1.2.1 AUTOMOTIVE HYPERVISOR MARKET, DEFINITION BY VEHICLE TYPE 28 1.2.2 AUTOMOTIVE HYPERVISOR MARKET, DEFINITION BY END USER 28 1.2.3 AUTOMOTIVE HYPERVISOR MARKET, DEFINITION BY TYPE 29 1.2.4 AUTOMOTIVE HYPERVISOR MARKET, DEFINITION BY BUS SYSTEM 29 1.2.5 AUTOMOTIVE HYPERVISOR MARKET, DEFINITION BY LEVEL OF AUTONOMOUS DRIVING 30 1.3 INCLUSIONS AND EXCLUSIONS 30 TABLE 1 AUTOMOTIVE HYPERVISOR MARKET: INCLUSIONS AND EXCLUSIONS 30 1.4 MARKET SCOPE 31 FIGURE 1⊓AUTOMOTIVE HYPERVISOR MARKET SEGMENTATION⊓31 1.5 YEARS CONSIDERED 1.6 CURRENCY CONSIDERED 32 TABLE 2□CURRENCY EXCHANGE RATES (PER USD)□32 1.7 STAKEHOLDERS 32 1.8 SUMMARY OF CHANGES 33 2 RESEARCH METHODOLOGY 34 2.1 RESEARCH DATA 34 FIGURE 2∏RESEARCH DESIGN∏34 2.1.1 SECONDARY DATA 35 2.1.1.1 Key data from secondary sources 35 2.1.1.2 List of secondary sources 35 2.1.2 PRIMARY DATA 36 2.1.2.1 Key data from primary sources 36 2.1.2.2 Participating companies for primary research 37 FIGURE 3 KEY INDUSTRY INSIGHTS 37 FIGURE 4 BREAKDOWN OF PRIMARIES 38 2.2 MARKET SIZE ESTIMATION 38 2.2.1 RECESSION IMPACT ANALYSIS 38 FIGURE 5 MARKET SIZE ESTIMATION METHODOLOGY 39 2.2.2 BOTTOM-UP APPROACH 39 FIGURE 6
BOTTOM-UP APPROACH
40 2.2.3 TOP-DOWN APPROACH 40 FIGURE 7 TOP-DOWN APPROACH 40 ? 2.3 FACTOR ANALYSIS 41 2.3.1 REGIONAL ECONOMY IMPACT ANALYSIS 41 2.3.2 FACTOR ANALYSIS FOR MARKET SIZING: DEMAND AND SUPPLY SIDES 42 2.4 DATA TRIANGULATION 43 FIGURE 8 DATA TRIANGULATION 43 2.5 ASSUMPTIONS 44 2.6 RISK ASSESSMENT 45 2.7 RESEARCH LIMITATIONS 45 3 EXECUTIVE SUMMARY 46 FIGURE 9 AUTOMOTIVE HYPERVISOR MARKET FACTORS 46 FIGURE 10 AUTOMOTIVE HYPERVISOR MARKET, BY REGION, 2022 VS. 2027 (USD MILLION) 47

FIGURE 11 AUTOMOTIVE HYPERVISOR MARKET, BY TYPE, 2022 VS. 2027 (USD MILLION) 47 4
PREMIUM INSIGHTS
48 4.1⊓ATTRACTIVE OPPORTUNITIES FOR PLAYERS IN AUTOMOTIVE HYPERVISOR MARKET∏48 FIGURE 12 INTEGRATION OF AUTOMOTIVE APPLICATIONS TO SUPPORT CENTRALIZED FUNCTIONS IN VEHICLES 48 4.2□AUTOMOTIVE HYPERVISOR MARKET, BY REGION□49 FIGURE 13 ASIA PACIFIC ESTIMATED TO ACCOUNT FOR LARGEST MARKET SHARE IN 2022 49 4.3 AUTOMOTIVE HYPERVISOR MARKET, BY TYPE 49 FIGURE 14 TYPE 1 TO ACQUIRE HIGHER MARKET SHARE FROM 2022 TO 2027 49 4.4 AUTOMOTIVE HYPERVISOR MARKET, BY LEVEL OF AUTONOMOUS DRIVING 50 FIGURE 15 ASIA PACIFIC TO BE LARGEST MARKET DURING FORECAST PERIOD 50 4.5 AUTOMOTIVE HYPERVISOR MARKET, BY END USER 50 FIGURE 16⊓LUXURY VEHICLES SURPASS OTHER END USERS⊓50 4.6 AUTOMOTIVE HYPERVISOR MARKET, BY VEHICLE TYPE 151 FIGURE 17 PASSENGER CARS COMMAND LEADING MARKET POSITION 51 5 MARKET OVERVIEW 52 5.1 INTRODUCTION 52 TABLE 3 IMPACT OF MARKET DYNAMICS 52 5.2 MARKET DYNAMICS 53 FIGURE 18 AUTOMOTIVE HYPERVISOR MARKET DYNAMICS 54 5.2.1 || DRIVERS || 54 5.2.1.1 Integration of automotive applications to support centralized function 54 FIGURE 19⊓VEHICLE V2X FEATURES⊓55 5.2.1.2 Increased complexity of electrical/electronic architecture in modern vehicles FIGURE 20 COMPLEXITY OF ELECTRONIC ARCHITECTURE IN MODERN VEHICLES 56 5.2.1.3 Rigorous use of innovative technologies in advanced user interface 56 5.2.1.4 Growing adoption of connected cars and advanced automotive technologies 57 5.2.2 RESTRAINTS 57 5.2.2.1 Lack of standard protocols to develop software platforms for automotive applications 57 5.2.2.2 Lower implementation of technology in economy vehicles 58 5.2.3 OPPORTUNITIES 58 5.2.3.1 Rise in demand for luxury cars 58 TABLE 4∏PRODUCTION VOLUME OF LUXURY CAR MODELS, 2020 VS. 2021∏58 5.2.3.2 Leveraging automotive software for embedded hypervisors 59 FIGURE 21 TYPES OF HYPERVISORS 60 5.2.3.3 Advanced embedded technology is key for semi-autonomous and autonomous cars 60 FIGURE 22 AUTONOMOUS CAR 61 5.2.3.4 Consolidation of electronic control units 61 5.2.4 CHALLENGES 62 5.2.4.1 [Impact of hardware on power management] 62 5.2.4.2 Risk of cybersecurity in connected vehicles 62 5.3 PORTER'S FIVE FORCES ANALYSIS 62 FIGURE 23 PORTER'S FIVE FORCES ANALYSIS 63 TABLE 5⊓IMPACT OF PORTER'S FIVE FORCES⊓63 5.3.1 THREAT OF SUBSTITUTES 64 5.3.2 THREAT OF NEW ENTRANTS 64 5.3.3 BARGAINING POWER OF BUYERS 64 5.3.4 BARGAINING POWER OF SUPPLIERS 64

5.3.5 INTENSITY OF COMPETITIVE RIVALRY 64 5.4 MACROECONOMIC INDICATORS 65 5.4.1 GDP TRENDS AND FORECASTS FOR MAJOR ECONOMIES 65 TABLE 6 GDP TRENDS AND FORECASTS FOR MAJOR ECONOMIES, 2018-2026 (USD BILLION) 65 5.5 TRENDS AND DISRUPTIONS IN AUTOMOTIVE HYPERVISOR MARKET 66 FIGURE 24[]TRENDS AND DISRUPTIONS IN AUTOMOTIVE HYPERVISOR MARKET[]66 5.6 VALUE CHAIN ANALYSIS 67 FIGURE 25 VALUE CHAIN ANALYSIS 67 5.7 AUTOMOTIVE HYPERVISOR MARKET ECOSYSTEM 68 FIGURE 26⊓AUTOMOTIVE HYPERVISOR MARKET ECOSYSTEM⊓68 5.7.1 OEM 68 5.7.2∏AUTOMOTIVE HYPERVISOR MANUFACTURERS∏68 5.7.3 AUTOMOTIVE SOFTWARE PROVIDERS 69 TABLE 7 AUTOMOTIVE HYPERVISOR MARKET: ROLE OF COMPANIES IN ECOSYSTEM 69 5.8 PATENT ANALYSIS 70 TABLE 8 ACTIVE PATENTS 70 TABLE 9 PATENTED DOCUMENTS ANALYSIS 72 5.9 CASE STUDY ANALYSIS 72 5.9.1 CASE STUDY 1: AUTOV - AUTOMOTIVE TESTBED FOR REAL-TIME VIRTUALIZATION 72 5.9.2 CASE STUDY 2: EVALUATION OF EMBEDDED HYPERVISOR ON AUTOMOTIVE PLATFORM 73 5.9.3 CASE STUDY 3: GREEN HILLS SOFTWARE POWERS ADVANCEMENTS IN MULTI-OS AUTOMOTIVE COCKPIT FOR MARELLI 74 5.10 REGULATORY OVERVIEW 74 5.10.1 NORTH AMERICA 74 TABLE 10 NORTH AMERICA: POLICIES AND INITIATIVES SUPPORTING AUTOMOTIVE HYPERVISOR MARKET 74 5.10.2 EUROPE 75 TABLE 11 EUROPE: POLICIES AND INITIATIVES SUPPORTING AUTOMOTIVE HYPERVISOR MARKET[]75 5.10.3 ASIA PACIFIC 75 TABLE 12 ASIA PACIFIC: POLICIES AND INITIATIVES SUPPORTING AUTOMOTIVE HYPERVISOR MARKET 75 5.11 TECHNOLOGY ANALYSIS 76 5.11.1 VIRTUALIZATION 76 5.11.2 IOT IN AUTOMOBILES 76 5.11.3 CONSOLIDATION OF ECUS 76 5.12 KEY STAKEHOLDERS AND BUYING CRITERIA 5.12.1 KEY STAKEHOLDERS IN BUYING PROCESS 77 TABLE 13 INFLUENCE OF INSTITUTIONAL BUYERS ON PURCHASE OF AUTOMOTIVE HYPERVISORS 77 5.12.2 BUYING CRITERIA 77 5.13 CONFERENCES AND EVENTS, 2022-2023 78 TABLE 14 AUTOMOTIVE HYPERVISOR MARKET: CONFERENCES AND EVENTS, 2022-2023 78 5.14 REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS 79 TABLE 15 ASIA PACIFIC: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS 79 TABLE 16 NORTH AMERICA: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS 80 TABLE 17 EUROPE: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS 81 TABLE 18 ROW: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS 82 5.15 AUTOMOTIVE HYPERVISOR MARKET SCENARIOS, 2022-2027 83 5.15.1 MOST LIKELY SCENARIO 83 TABLE 19[]AUTOMOTIVE HYPERVISOR MARKET (MOST LIKELY), BY REGION, 2022-2027 (USD MILLION)[]83 5.15.2 OPTIMISTIC SCENARIO 83

TABLE 20[]AUTOMOTIVE HYPERVISOR MARKET (OPTIMISTIC), BY REGION, 2022-2027 (USD MILLION)[]83 ?

5.15.3 PESSIMISTIC SCENARIO 84

TABLE 21[]AUTOMOTIVE HYPERVISOR MARKET (PESSIMISTIC), BY REGION, 2022-2027 (USD MILLION)[]84 6[]AUTOMOTIVE HYPERVISOR MARKET, BY END USER[]85

6.1 INTRODUCTION 86

FIGURE 27 AUTOMOTIVE HYPERVISOR MARKET, BY END USER, 2022 VS. 2027 (USD MILLION) 86

TABLE 22]AUTOMOTIVE HYPERVISOR MARKET, BY END USER, 2018-2021 (USD MILLION)]87

TABLE 23[]AUTOMOTIVE HYPERVISOR MARKET, BY END USER, 2022-2027 (USD MILLION)[]87

6.1.1 OPERATIONAL DATA 87

TABLE 24 NUMBER OF ECUS/MDCS, BY END USER 87

6.1.2 ASSUMPTIONS 88

6.1.3 RESEARCH METHODOLOGY 88

6.2 ECONOMY VEHICLES 88

6.2.1 LOW COST AND INCORPORATION OF ADVANCED FEATURES 88

TABLE 25] ECONOMY VEHICLES: AUTOMOTIVE HYPERVISOR MARKET, BY REGION, 2018-2021 (USD MILLION)]89 TABLE 26] ECONOMY VEHICLES: AUTOMOTIVE HYPERVISOR MARKET, BY REGION, 2022-2027 (USD MILLION)]89 6.3] MID-PRICED VEHICLES]90

6.3.1 ADVANCEMENTS IN INFOTAINMENT FEATURES 90

TABLE 27[]MID-PRICED VEHICLES: AUTOMOTIVE HYPERVISOR MARKET, BY REGION, 2018-2021 (USD MILLION)[]90 TABLE 28[]MID-PRICED VEHICLES: AUTOMOTIVE HYPERVISOR MARKET, BY REGION, 2022-2027 (USD MILLION)[]90 6.4[]LUXURY VEHICLES[]91

6.4.1 INCREASING ADOPTION OF V2X FEATURES 91

TABLE 29[LUXURY VEHICLES: AUTOMOTIVE HYPERVISOR MARKET, BY REGION, 2018-2021 (USD MILLION)[]91 TABLE 30[LUXURY VEHICLES: AUTOMOTIVE HYPERVISOR MARKET, BY REGION, 2022-2027 (USD MILLION)[]92 6.5[]KEY INDUSTRY INSIGHTS[]92

7 AUTOMOTIVE HYPERVISOR MARKET, BY VEHICLE TYPE 93

7.1 INTRODUCTION 94

FIGURE 28[AUTOMOTIVE HYPERVISOR MARKET, BY VEHICLE TYPE, 2022 VS. 2027 (USD MILLION)[]95 TABLE 31[]AUTOMOTIVE HYPERVISOR MARKET, BY VEHICLE TYPE, 2018-2021 (USD MILLION)[]95 TABLE 32[]AUTOMOTIVE HYPERVISOR MARKET, BY VEHICLE TYPE, 2022-2027 (USD MILLION)[]95 ?

7.1.1 OPERATIONAL DATA 96

TABLE 33 SOFTWARE VENDORS, BY VEHICLE TYPE 96

7.1.2 ASSUMPTIONS 96

7.1.3 RESEARCH METHODOLOGY 96

7.2 PASSENGER CARS 97

7.2.1 HIGH DEMAND FOR CONNECTED VEHICLES 97

TABLE 34 PASSENGER CARS: AUTOMOTIVE HYPERVISOR MARKET, BY REGION, 2018-2021 (USD MILLION) 97

TABLE 35[]PASSENGER CARS: AUTOMOTIVE HYPERVISOR MARKET, BY REGION, 2022-2027 (USD MILLION)[]98 7.3[]LIGHT COMMERCIAL VEHICLES[]98

7.3.1 IMPLEMENTATION OF ADVANCED FEATURES 98

TABLE 36 LCVS: AUTOMOTIVE HYPERVISOR MARKET, BY REGION, 2022-2027 (USD MILLION) 99

7.4 HEAVY COMMERCIAL VEHICLES 99

7.4.1 ENHANCED COMMUNICATION AND SAFETY SYSTEMS 99

TABLE 37[]HCVS: AUTOMOTIVE HYPERVISOR MARKET, BY REGION, 2022-2027 (USD MILLION)[]99 7.5[]KEY INDUSTRY INSIGHTS[]100

8 AUTOMOTIVE HYPERVISOR MARKET, BY TYPE 101 8.1 INTRODUCTION 102 FIGURE 29[]AUTOMOTIVE HYPERVISOR MARKET, BY TYPE, 2022 VS. 2027 (USD MILLION)[]102 TABLE 38 AUTOMOTIVE HYPERVISOR MARKET, BY TYPE, 2018-2021 (USD MILLION) 103 TABLE 39 AUTOMOTIVE HYPERVISOR MARKET, BY TYPE, 2022-2027 (USD MILLION) 103 8.1.1 OPERATIONAL DATA 103 TABLE 40 SOFTWARE VENDORS, BY TYPE 103 8.1.2 ASSUMPTIONS 104 8.1.3 RESEARCH METHODOLOGY 104 8.2∏TYPE 1∏104 8.2.1 □ PREFERENCE FOR SAFETY APPLICATIONS □ 104 TABLE 41 TYPE 1: AUTOMOTIVE HYPERVISOR MARKET, BY REGION, 2018-2021 (USD MILLION) 105 TABLE 42□TYPE 1: AUTOMOTIVE HYPERVISOR MARKET, BY REGION, 2022-2027 (USD MILLION)□105 8.3 TYPE 2 106 8.3.1 USE IN NON-CRITICAL FEATURES 106 TABLE 43 TYPE 2: AUTOMOTIVE HYPERVISOR MARKET, BY REGION, 2018-2021 (USD MILLION) 106 TABLE 44[TYPE 2: AUTOMOTIVE HYPERVISOR MARKET, BY REGION, 2022-2027 (USD MILLION)[106 8.4 KEY INDUSTRY INSIGHTS 107 ? 9 AUTOMOTIVE HYPERVISOR MARKET, BY LEVEL OF AUTONOMOUS DRIVING 108 9.1 INTRODUCTION 109 9.1.1 OPERATIONAL DATA 109 TABLE 45 SOFTWARE VENDORS, BY LEVEL OF AUTONOMOUS DRIVING 109 9.1.2 ASSUMPTIONS 110 9.1.3 RESEARCH METHODOLOGY 110 9.2 AUTONOMOUS VEHICLES 110 9.2.1 NEED FOR HIGH EFFICIENCY IN SELF-DRIVING VEHICLES 110 FIGURE 30∏AUTOMOTIVE HYPERVISOR MARKET, BY AUTONOMOUS DRIVING, 2026 VS. 2030 (USD MILLION)∏111 TABLE 46[]AUTONOMOUS VEHICLES: AUTOMOTIVE HYPERVISOR MARKET, BY REGION, 2026-2030 (USD MILLION)[]111 9.3 SEMI-AUTONOMOUS VEHICLES 112 9.3.1 INCREASING SAFETY AND CONVENIENCE APPLICATIONS 112 FIGURE 31∏AUTOMOTIVE HYPERVISOR MARKET, BY SEMI-AUTONOMOUS DRIVING, 2022 VS. 2027 (USD MILLION)∏112 TABLE 47 SEMI-AUTONOMOUS VEHICLES: AUTOMOTIVE HYPERVISOR MARKET, BY REGION, 2018-2021 (USD MILLION) 112 TABLE 48[SEMI-AUTONOMOUS VEHICLES: AUTOMOTIVE HYPERVISOR MARKET, BY REGION, 2022-2027 (USD MILLION)[113] 9.3.1.1 Level 1 semi-autonomous vehicles 113 9.3.1.2 Level 2 semi-autonomous vehicles 113 9.3.1.3 Level 3 semi-autonomous vehicles 114 TABLE 49 SEMI-AUTONOMOUS VEHICLES: AUTOMOTIVE HYPERVISOR MARKET, BY LEVEL OF AUTONOMY, 2022-2027 (USD MILLION)[]114 9.4 KEY INDUSTRY INSIGHTS 114 10 AUTOMOTIVE HYPERVISOR MARKET, BY BUS SYSTEM 115 10.1 INTRODUCTION 115 FIGURE 32 AUTOMOTIVE HYPERVISOR MARKET, BY BUS SYSTEM, 2022 VS. 2027 (USD MILLION) 115 TABLE 50∏AUTOMOTIVE HYPERVISOR MARKET, BY BUS SYSTEM, 2018-2021 (USD MILLION)∏115 TABLE 51 AUTOMOTIVE HYPERVISOR MARKET, BY BUS SYSTEM, 2022-2027 (USD MILLION) 116 10.2 CAN 116 10.3 ETHERNET 117

10.4[]FLEXRAY[]117 10.5[]LIN[]117 ? 11 AUTOMOTIVE HYPERVISOR MARKET, BY SALES CHANNEL 119 11.1 INTRODUCTION 119 11.2 || OEM || 119 11.2.1 TREND OF OFFERING BUNDLED SOLUTIONS TO AUTOMAKERS 119 11.3 AFTERMARKET 120 11.3.1 INCREASING VEHICLE SALES 120 11.4 KEY PRIMARY INSIGHTS 120 FIGURE 33⊓KEY PRIMARY INSIGHTS∏120 12 AUTOMOTIVE HYPERVISOR MARKET, BY REGION 121 12.1⊓INTRODUCTION⊓122 FIGURE 34 AUTOMOTIVE HYPERVISOR MARKET, BY REGION, 2022 VS. 2027 (USD MILLION) 123 TABLE 52□AUTOMOTIVE HYPERVISOR MARKET, BY REGION, 2018-2021 (USD MILLION)□123 TABLE 53⊓AUTOMOTIVE HYPERVISOR MARKET, BY REGION, 2022-2027 (USD MILLION)⊓123 12.2 ASIA PACIFIC 124 FIGURE 35 ASIA PACIFIC: AUTOMOTIVE HYPERVISOR MARKET SNAPSHOT 124 TABLE 54 ASIA PACIFIC: AUTOMOTIVE HYPERVISOR MARKET, BY COUNTRY, 2018-2021 (USD MILLION) 125 TABLE 55[]ASIA PACIFIC: AUTOMOTIVE HYPERVISOR MARKET, BY COUNTRY, 2022-2027 (USD MILLION)]]125 TABLE 56 ASIA PACIFIC: AUTOMOTIVE HYPERVISOR MARKET, BY END USER, 2018-2021 (USD MILLION) 125 TABLE 57 ASIA PACIFIC: AUTOMOTIVE HYPERVISOR MARKET, BY END USER, 2022-2027 (USD MILLION) 126 12.2.1 CHINA 126 12.2.1.1 Increased adoption of luxury vehicles 126 TABLE 58∏CHINA: AUTOMOTIVE HYPERVISOR MARKET, BY END USER, 2018-2021 (USD MILLION)∏126 TABLE 59∏CHINA: AUTOMOTIVE HYPERVISOR MARKET, BY END USER, 2022-2027 (USD MILLION)∏127 12.2.2 INDIA 127 12.2.2.1 Significant rise in vehicle production 127 TABLE 60[INDIA: AUTOMOTIVE HYPERVISOR MARKET, BY END USER, 2022-2027 (USD MILLION)[]127 12.2.3 || APAN || 128 12.2.3.1 □ Economy vehicles to be fastest-growing segment □ 128 TABLE 61∏JAPAN: AUTOMOTIVE HYPERVISOR MARKET, BY END USER, 2018-2021 (USD MILLION)∏128 TABLE 62∏JAPAN: AUTOMOTIVE HYPERVISOR MARKET, BY END USER, 2022-2027 (USD MILLION)∏129 12.2.4 SOUTH KOREA 129 12.2.4.1 Introduction of premium vehicles with advanced vehicular features 129 TABLE 63 SOUTH KOREA: AUTOMOTIVE HYPERVISOR MARKET, BY END USER, 2018-2021 (USD MILLION) 129 TABLE 64 SOUTH KOREA: AUTOMOTIVE HYPERVISOR MARKET, BY END USER, 2022-2027 (USD MILLION) 130 12.2.5 THAILAND 130 12.2.5.1 Largest automotive production capacity in Southeast Asia 130 TABLE 65∏THAILAND: AUTOMOTIVE HYPERVISOR MARKET, BY END USER, 2022-2027 (USD MILLION)∏130 12.2.6 REST OF ASIA PACIFIC 131 12.2.6.1 High demand for electronically controlled features in vehicles 131 TABLE 66∏REST OF ASIA PACIFIC: AUTOMOTIVE HYPERVISOR MARKET, BY END USER, 2022-2027 (USD MILLION)∏131 12.3 UROPE 132 12.3.1 EUROPE: RECESSION IMPACT 132 TABLE 67[]EUROPE: AUTOMOTIVE HYPERVISOR MARKET, BY COUNTRY, 2018-2021 (USD MILLION)[]133 TABLE 68[]EUROPE: AUTOMOTIVE HYPERVISOR MARKET, BY COUNTRY, 2022-2027 (USD MILLION)[]133

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TABLE 69 EUROPE: AUTOMOTIVE HYPERVISOR MARKET, BY END USER, 2018-2021 (USD MILLION) 133 TABLE 70 EUROPE: AUTOMOTIVE HYPERVISOR MARKET, BY END USER, 2022-2027 (USD MILLION) 134 12.3.2 FRANCE 134

12.3.2.1 Government mandates for vehicle safety systems 134

TABLE 71[]FRANCE: AUTOMOTIVE HYPERVISOR MARKET, BY END USER, 2018-2021 (USD MILLION)[]134 TABLE 72[]FRANCE: AUTOMOTIVE HYPERVISOR MARKET, BY END USER, 2022-2027 (USD MILLION)[]135 12.3.3[]GERMANY[]135

12.3.3.1 High-end domestic automotive industry 135

TABLE 73 GERMANY: AUTOMOTIVE HYPERVISOR MARKET, BY END USER, 2018-2021 (USD MILLION) 135 TABLE 74 GERMANY: AUTOMOTIVE HYPERVISOR MARKET, BY END USER, 2022-2027 (USD MILLION) 123 12.3.4 RUSSIA 136

12.3.4.1 Rising production of mid-priced and luxury vehicles 136

TABLE 75[]RUSSIA: AUTOMOTIVE HYPERVISOR MARKET, BY END USER, 2022-2027 (USD MILLION)[]136 12.3.5[]SPAIN[]137

12.3.5.1 Incorporation of advanced features in vehicles 137

TABLE 76 SPAIN: AUTOMOTIVE HYPERVISOR MARKET, BY END USER, 2018-2021 (USD MILLION) 137 TABLE 77 SPAIN: AUTOMOTIVE HYPERVISOR MARKET, BY END USER, 2022-2027 (USD MILLION) 137 12.3.6 UK 138

12.3.6.1 OEMs involved in producing luxury cars 138

TABLE 78[]UK: AUTOMOTIVE HYPERVISOR MARKET, BY END USER, 2018-2021 (USD MILLION)[]138

TABLE 79[]UK: AUTOMOTIVE HYPERVISOR MARKET, BY END USER, 2022-2027 (USD MILLION)[]138

12.3.7 REST OF EUROPE 139

12.3.7.1 Increase in vehicle-to-vehicle communication 139

TABLE 80[REST OF EUROPE: AUTOMOTIVE HYPERVISOR MARKET, BY END USER, 2018-2021 (USD MILLION)[139 TABLE 81[REST OF EUROPE: AUTOMOTIVE HYPERVISOR MARKET, BY END USER, 2022-2027 (USD MILLION)[139 12.4[NORTH AMERICA]]140

FIGURE 36 NORTH AMERICA: AUTOMOTIVE HYPERVISOR MARKET SNAPSHOT 140

TABLE 82[]NORTH AMERICA: AUTOMOTIVE HYPERVISOR MARKET, BY COUNTRY, 2018-2021 (USD MILLION)[]141 TABLE 83[]NORTH AMERICA: AUTOMOTIVE HYPERVISOR MARKET, BY COUNTRY, 2022-2027 (USD MILLION)[]141 TABLE 84[]NORTH AMERICA: AUTOMOTIVE HYPERVISOR MARKET, BY END USER, 2018-2021 (USD MILLION)[]141 TABLE 85[]NORTH AMERICA: AUTOMOTIVE HYPERVISOR MARKET, BY END USER, 2022-2027 (USD MILLION)[]142 12.4.1]CANADA]142

12.4.1.1 Growing demand for high-end cars 142

TABLE 86[CANADA: AUTOMOTIVE HYPERVISOR MARKET, BY END USER, 2018-2021 (USD MILLION)[]142 TABLE 87[]CANADA: AUTOMOTIVE HYPERVISOR MARKET, BY END USER, 2022-2027 (USD MILLION)[]143 12.4.2[]MEXICO[]143

12.4.2.1 Integration with North American market 143

TABLE 88[]MEXICO: AUTOMOTIVE HYPERVISOR MARKET, BY END USER, 2022-2027 (USD MILLION)[]143 12.4.3[]US[]144

12.4.3.1 $\ensuremath{\square}\xspace$ Focus on development of high-performance vehicles $\ensuremath{\square}\xspace$ 144

TABLE 89[]US: AUTOMOTIVE HYPERVISOR MARKET, BY END USER, 2018-2021 (USD MILLION)[]144 TABLE 90[]US: AUTOMOTIVE HYPERVISOR MARKET, BY END USER, 2022-2027 (USD MILLION)[]144 12.5[]REST OF THE WORLD[]145

TABLE 91 ROW: AUTOMOTIVE HYPERVISOR MARKET, BY COUNTRY, 2018-2021 (USD MILLION) 145 TABLE 92 ROW: AUTOMOTIVE HYPERVISOR MARKET, BY COUNTRY, 2022-2027 (USD MILLION) 145 TABLE 93 ROW: AUTOMOTIVE HYPERVISOR MARKET, BY END USER, 2018-2021 (USD MILLION) 145 TABLE 94 ROW: AUTOMOTIVE HYPERVISOR MARKET, BY END USER, 2022-2027 (USD MILLION) 146

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12.5.1[]BRAZIL[]146 12.5.1.1 Strong auto manufacturing base of leading OEMs 146 TABLE 95∏BRAZIL: AUTOMOTIVE HYPERVISOR MARKET, BY END USER, 2018-2021 (USD MILLION)∏146 TABLE 96∏BRAZIL: AUTOMOTIVE HYPERVISOR MARKET, BY END USER, 2022-2027 (USD MILLION)∏147 12.5.2 || IRAN || 147 12.5.2.1 Preference for mid-priced passenger cars 147 TABLE 97 IRAN: AUTOMOTIVE HYPERVISOR MARKET, BY END USER, 2022-2027 (USD MILLION) 147 12.5.3 OTHERS 148 12.5.3.1 Largescale use of luxury vehicles 148 TABLE 98∏OTHERS: AUTOMOTIVE HYPERVISOR MARKET, BY END USER, 2022-2027 (USD MILLION)∏148 13 COMPETITIVE LANDSCAPE 149 13.1 OVERVIEW 149 13.2 AUTOMOTIVE HYPERVISOR MARKET SHARE ANALYSIS 149 TABLE 99 MARKET SHARE ANALYSIS, 2021 149 FIGURE 37 MARKET SHARE ANALYSIS, 2021 150 13.2.1 PANASONIC 150 13.2.2 NXP SEMICONDUCTORS 151 13.2.3 RENESAS ELECTRONICS 151 13.2.4 BLACKBERRY 151 13.2.5 VISTEON CORPORATION 151 13.3 KEY PLAYER STRATEGIES 152 TABLE 100 STRATEGIES ADOPTED BY PLAYERS IN AUTOMOTIVE HYPERVISOR MARKET 152 13.4 REVENUE ANALYSIS OF TOP LISTED/PUBLIC PLAYERS 153 FIGURE 38 TOP PUBLIC/LISTED PLAYERS DOMINATING AUTOMOTIVE HYPERVISOR MARKET 153 13.5 COMPETITIVE SCENARIO 153 13.5.1 NEW PRODUCT LAUNCHES 154 TABLE 101 NEW PRODUCT LAUNCHES, 2018-2022 154 13.5.2 DEALS 155 TABLE 102 DEALS, 2018-2022 155 13.5.3 OTHERS 156 TABLE 103 OTHERS, 2018-2022 156 13.6 COMPANY EVALUATION QUADRANT 156 13.6.1 STARS 157 13.6.2 EMERGING LEADERS 157 13.6.3 PERVASIVE PLAYERS 157 13.6.4 PARTICIPANTS 157 FIGURE 39[]AUTOMOTIVE HYPERVISOR MARKET: COMPANY EVALUATION QUADRANT, 2022[]158 TABLE 104□AUTOMOTIVE HYPERVISOR MARKET: COMPANY FOOTPRINT, 2022□159 TABLE 105 AUTOMOTIVE HYPERVISOR MARKET: PRODUCT FOOTPRINT, 2022 159 TABLE 106⊓AUTOMOTIVE HYPERVISOR MARKET: REGIONAL FOOTPRINT, 2022⊓160 ? 13.7 STARTUP/SME EVALUATION QUADRANT 160 13.7.1 PROGRESSIVE COMPANIES 160 13.7.2 RESPONSIVE COMPANIES 160 13.7.3 DYNAMIC COMPANIES 160 13.7.4 STARTING BLOCKS 161 FIGURE 40 AUTOMOTIVE HYPERVISOR MARKET: STARTUP/SME EVALUATION QUADRANT, 2022 161

TABLE 107 AUTOMOTIVE HYPERVISOR MARKET: KEY STARTUPS/SMES 162 TABLE 108 AUTOMOTIVE HYPERVISOR MARKET: COMPETITIVE BENCHMARKING OF STARTUPS/SMES 163 14 COMPANY PROFILES 164 14.1 KEY PLAYERS 164 (Business Overview, Products Offered, Recent Developments, and MnM View)* 14.1.1 PANASONIC 164 TABLE 109 PANASONIC: BUSINESS OVERVIEW 164 FIGURE 41 PANASONIC: COMPANY SNAPSHOT 165 TABLE 110 PANASONIC: PRODUCTS OFFERED 165 TABLE 111 PANASONIC: NEW PRODUCT DEVELOPMENTS 166 TABLE 112 PANASONIC: DEALS 166 14.1.2 NXP SEMICONDUCTORS 168 TABLE 113 NXP SEMICONDUCTORS: BUSINESS OVERVIEW 168 FIGURE 42 NXP SEMICONDUCTORS: COMPANY SNAPSHOT 169 TABLE 114 NXP SEMICONDUCTORS: PRODUCTS OFFERED 169 TABLE 115 NXP SEMICONDUCTORS: NEW PRODUCT DEVELOPMENTS 170 TABLE 116 NXP SEMICONDUCTORS: DEALS 171 14.1.3 RENESAS ELECTRONICS 173 TABLE 117 RENESAS ELECTRONICS: BUSINESS OVERVIEW 173 FIGURE 43 RENESAS ELECTRONICS: COMPANY SNAPSHOT 174 TABLE 118 RENESAS ELECTRONICS: PRODUCTS OFFERED 174 TABLE 119 RENESAS ELECTRONICS: NEW PRODUCT DEVELOPMENTS 175 TABLE 120 RENESAS ELECTRONICS: DEALS 176 TABLE 121 RENESAS ELECTRONICS: OTHERS 177 14.1.4 BLACKBERRY 178 TABLE 122 BLACKBERRY: BUSINESS OVERVIEW 178 FIGURE 44 BLACKBERRY: COMPANY SNAPSHOT 179 FIGURE 45 BLACKBERRY: AUTOMOTIVE SOFTWARE 179 TABLE 123[BLACKBERRY: PRODUCTS OFFERED]180 TABLE 124 BLACKBERRY: NEW PRODUCT DEVELOPMENTS 180 TABLE 125∏BLACKBERRY: DEALS∏181 14.1.5 VISTEON CORPORATION 183 TABLE 126 VISTEON CORPORATION: BUSINESS OVERVIEW 183 FIGURE 46 VISTEON CORPORATION: COMPANY SNAPSHOT 183 TABLE 127 VISTEON CORPORATION: PRODUCTS OFFERED 184 TABLE 128 VISTEON CORPORATION: NEW PRODUCT DEVELOPMENTS 184 TABLE 129 VISTEON CORPORATION: DEALS 185 TABLE 130 VISTEON CORPORATION: OTHERS 186 14.1.6 SIEMENS 188 TABLE 131 SIEMENS: BUSINESS OVERVIEW 188 FIGURE 47 SIEMENS: COMPANY SNAPSHOT 189 TABLE 132 SIEMENS: PRODUCTS OFFERED 189 TABLE 133 SIEMENS: NEW PRODUCT DEVELOPMENTS 189 TABLE 134 SIEMENS: DEALS 190 14.1.7 ELEKTROBIT 191 TABLE 135 ELEKTROBIT: BUSINESS OVERVIEW 191 TABLE 136 ELEKTROBIT: PRODUCTS OFFERED 191

TABLE 137 ELEKTROBIT: NEW PRODUCT DEVELOPMENTS 192 TABLE 138 ELEKTROBIT: DEALS 192 14.1.8 GREEN HILLS SOFTWARE 193 TABLE 139 GREEN HILLS SOFTWARE: BUSINESS OVERVIEW 193 FIGURE 48 GREEN HILLS SOFTWARE: AUTOMOTIVE PLATFORMS 193 TABLE 140 GREEN HILLS SOFTWARE: PRODUCTS OFFERED 194 TABLE 141 GREEN HILLS SOFTWARE: NEW PRODUCT DEVELOPMENTS 194 TABLE 142 GREEN HILLS SOFTWARE: DEALS 195 14.1.9 SASKEN TECHNOLOGIES 197 TABLE 143 SASKEN TECHNOLOGIES: BUSINESS OVERVIEW 197 FIGURE 49 SASKEN TECHNOLOGIES: COMPANY SNAPSHOT 197 FIGURE 50 SASKEN TECHNOLOGIES: PRODUCT DEVELOPMENT EXPERTISE 198 TABLE 144 SASKEN TECHNOLOGIES: PRODUCTS OFFERED 198 TABLE 145 SASKEN TECHNOLOGIES: NEW PRODUCT DEVELOPMENTS 199 TABLE 146 SASKEN TECHNOLOGIES: DEALS 199 TABLE 147 SASKEN TECHNOLOGIES: OTHERS 199 14.1.10 SYSG0 200 TABLE 148 SYSGO: BUSINESS OVERVIEW 200 TABLE 149 SYSGO: PRODUCTS OFFERED 200 TABLE 150 SYSGO: DEALS 201 14.1.11 OPENSYNERGY 202 TABLE 151 OPENSYNERGY: BUSINESS OVERVIEW 202 TABLE 152 OPENSYNERGY: PRODUCTS OFFERED 202 TABLE 153 OPENSYNERGY: NEW PRODUCT DEVELOPMENTS 203 TABLE 154 OPENSYNERGY: DEALS 203 * Business Overview, Products Offered, Recent Developments, and MnM View might not be captured in case of unlisted companies. ? 14.2 OTHER PLAYERS 205 14.2.1 HARMAN INTERNATIONAL 205 TABLE 155 HARMAN INTERNATIONAL: COMPANY OVERVIEW 205 14.2.2 KPIT TECHNOLOGIES 205 TABLE 156 KPIT TECHNOLOGIES: COMPANY OVERVIEW 205 14.2.3 TATA ELXSI 206 TABLE 157 TATA ELXSI: COMPANY OVERVIEW 206 14.2.4 LUXOFT 206 TABLE 158 LUXOFT: COMPANY OVERVIEW 206 14.2.5 HANGSHENG TECHNOLOGY 207 TABLE 159 HANGSHENG TECHNOLOGY: COMPANY OVERVIEW 207 14.2.6 QT COMPANY 207 TABLE 160 QT COMPANY: COMPANY OVERVIEW 207 14.2.7 QUALCOMM TECHNOLOGIES 208 TABLE 161 QUALCOMM TECHNOLOGIES: COMPANY OVERVIEW 208 14.2.8 VMWARE 208 TABLE 162 VMWARE: COMPANY OVERVIEW 208 14.2.9 TEXAS INSTRUMENTS 209 TABLE 163 TEXAS INSTRUMENTS: COMPANY OVERVIEW 209

14.2.10 LYNX SOFTWARE TECHNOLOGIES 209 TABLE 164 LYNX SOFTWARE TECHNOLOGIES: COMPANY OVERVIEW 209 14.2.11 ETAS 210 TABLE 165 ETAS: COMPANY OVERVIEW 210 14.2.12 INFINEON TECHNOLOGIES 210 TABLE 166 INFINEON TECHNOLOGIES: COMPANY OVERVIEW 210 15 RECOMMENDATIONS BY MARKETSANDMARKETS 211 15.1 LUXURY VEHICLES TO BE KEY MARKET FOR AUTOMOTIVE HYPERVISORS 211 15.2 TYPE 1 HYPERVISORS TO BE MOST PREFERRED 211 15.3 CONCLUSION 211 16 APPENDIX 212 16.1 INSIGHTS FROM INDUSTRY EXPERTS 212 16.2 DISCUSSION GUIDE 213 16.3 KNOWLEDGESTORE: MARKETSANDMARKETS' SUBSCRIPTION PORTAL 215 16.4 CUSTOMIZATION OPTIONS 217 16.5 RELATED REPORTS 217 16.6 AUTHOR DETAILS 218



Automotive Hypervisor Market by Type, Vehicle Type, End User, Level Of Autonomous Driving, Bus System (Controller Area Network (CAN), Local Interconnect Network (LIN), Ethernet, and FlexRay), Sales Channel and Region - Global Forecast to 2027

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