

Automotive Software Market by ICE Application (ADAS, Autonomous Driving, Infotainment, Body Control & Comfort, Telematics), Software Layer (OS, Middleware, Application), Vehicle Type (PCs, LCVs, HCVs), EV Application & Region - Global Forecast to 2030

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Report description:

The global automotive software market size is projected to grow from USD 19.0 Billion in 2023 to USD 32.3 Billion by 2030, at a CAGR of 7.8%. The demand for automotive software solutions is anticipated to increase owing to the increasing adoption of ADAS features in vehicle across several countries. Also, anticipated rise in number of ECUs/domain controllers in vehicles paired with growing developments in semi-autonomous and autonomous vehicles are expected to bolster the revenue growth of the automotive software market.

The passenger cars segment is expected to have significant opportunities during the forecast period

The passenger cars segment is expected to dominate the automotive software market during the forecast period as software services have a higher penetration in passenger cars than commercial vehicles. The major factor accelerating the demand for automotive software in passenger cars in developed countries is a strong demand for advanced applications such as ADAS and connected car services. The rise in demand for advanced applications for the automotive sector led the major players to adopt the strategy. For example, in February 2022, Harman International (US) acquired Apostera (Germany) to focus on connected technologies for automotive, consumer, and enterprise markets. Apostera's augmented reality (AR) and mixed reality (MR) software solutions will expand HARMAN's automotive product offerings. All these factors are expected to boost the revenue growth for passenger cars segment in the automotive software market.

Battery management systems segment is likely have noticeable grow in the automotive software market during the forecast period

The battery management systems segment, by EV application, is expected to hold a significant market share in the automotive

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software market during the forecast period. Battery management systems play a critical role in enhancing the battery's performance and useful lifespan. These systems monitor operational parameters such as the current, voltage, and internal temperature and reduce the stress on the battery by delivering adequate power to the electric vehicle's motor. The increase in sales of BEVs is likely to support the revenue growth of the battery management systems segment in the automotive software market. For instance, in June 2023, Toyota Motor Corporation (Japan) announced that they will launch next-generation BEVs globally and full lineup to be launched by 2026. Such development of BEVs will increase the demand for battery management systems, and automotive software plays a critical role in it as it enables the system to perform its essential functions such as controlling the charging and discharging of the battery, and optimizing power, among others.

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Europe shows noticeable growth potential for automotive software market

Europe region is expected to register the noticeable growth in the automotive software market during the forecast period. Europe covers France, Germany, Italy, the UK, Spain, Russia, Turkey, and the Rest of Europe for market analysis. The region is home to the top Tier I suppliers in the automotive sector, such as Continental AG (Germany), Robert Bosch GmbH (Germany), and ZF Friedrichshafen AG (Germany). The presence of these companies would contribute to the growth of European automotive software during the forecast period. The region is among the largest markets for passenger cars, particularly premium cars (C segment and above). The high volume of premium car sales can be attributed to the high purchasing power of European buyers. The presence of automotive OEMs such as Volkswagen (Germany), Mercedes-Benz Group AG (Germany), Renault (France), Stellantis NV (Netherlands), and AB Volvo (Sweden) further offers lucrative opportunities for the automotive software market in the region.

In-depth interviews were conducted with CEOs, marketing directors, other innovation and technology directors, and executives from various key organizations operating in the automotive software market. The break-up of the primaries is as follows:

-□By Company Type: OEMs - 40%, Tier I & Tier II - 60%

-□By Designation: C Level Executives - 15%, Directors - 20%, and Executives - 65%

-□By Region: North America - 30%, Europe - 35%, Asia Pacific - 25%, Latin America - 6%, Rest of World - 4%

The automotive software market comprises major manufacturers such as Robert Bosch GmbH (Germany), NXP Semiconductors (Netherlands), NVIDIA Corporation (US), BlackBerry Limited (Canada), and Continental AG (Germany), etc.

Research Coverage:

The study covers the automotive software market across various segments. It aims at estimating the market size and future growth potential of this market across different segments such as ICE application, EV application, software layer, vehicle type, and region. The study also includes an in-depth competitive analysis of key market players, their company profiles, key observations related to product and business offerings, recent developments, and acquisitions.

This research report categorizes automotive software market by Software Layer (Operating System, Middleware, and Application Software), ICE Application (ADAS & Safety Systems, Autonomous Driving, Body & Comfort Systems, Infotainment Systems, Engine Management & Powertrain, Vehicle Telematics), EV Application (Battery Management Systems, ADAS & Safety Systems, Autonomous Driving, Body Control & Comfort Systems, Infotainment Systems, Electric Drive, Engine Management & Powertrain, Vehicle Telematics), Vehicle Type (Passenger Cars, Light Commercial Vehicles, and Heavy Commercial Vehicles), and Region (Asia Pacific, Europe, North America, Latin America, and Rest of the World).

The report's scope covers detailed information regarding the major factors, such as drivers, restraints, challenges, and opportunities, influencing the growth of the automotive software market. A detailed analysis of the key industry players provides insights into their business overview, solutions, and services; key strategies; contracts, partnerships, agreements, new product & service launches, mergers and acquisitions, and recent developments associated with the automotive software market. Competitive analysis of SMEs/startups in the automotive software market ecosystem is covered in this report.

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The report will help the market leaders/new entrants in this market with information on the closest approximations of the revenue numbers for the overall automotive software market and the subsegments. This report will help stakeholders understand the competitive landscape and gain more insights to position their businesses better and to plan suitable go-to-market strategies. The report also helps stakeholders understand the market pulse and provides information on key market drivers, restraints, challenges, and opportunities.

The report provides insights on the following pointers:

- Analysis of key drivers (Rapid integration of ADAS features in vehicles, increasing adoption of connected car services, advancements in infotainment systems, rising deployment of ECUs and domain controllers in vehicles, growing collaborations between OEMs and software providers), restraints (Lack of standard protocols for development of software platforms, absence of connected infrastructure and seamless connectivity, troubleshooting and maintenance constraints for automotive software), opportunities (Untapped potential of 5G and AI, advent of software-defined vehicles, developments in semi-autonomous and autonomous vehicles, booming sales of premium passenger cars, adoption of software-over-the-air (SOTA) updates), and challenges (Risk of cyberattacks, complexity of vehicle architecture) influencing the growth of the automotive software market
- Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and new product & service launches in the automotive software market
- Market Development: Comprehensive information about lucrative markets - the report analyses the automotive software market across varied regions.
- Market Diversification: Exhaustive information about new products & services, untapped geographies, recent developments, and investments in the automotive software market
- Competitive Assessment: In-depth assessment of market shares, growth strategies, and service offerings of leading players like Robert Bosch GmbH (Germany), NXP Semiconductors (Netherlands), NVIDIA Corporation (US), BlackBerry Limited (Canada), and Continental AG (Germany), among others in the automotive software market.

Table of Contents:

1□INTRODUCTION□31

1.1□STUDY OBJECTIVES□31

1.2□MARKET DEFINITION□32

TABLE 1□MARKET DEFINITION, BY SOFTWARE LAYER□32

TABLE 2□MARKET DEFINITION, BY ICE & EV APPLICATION□32

TABLE 3□MARKET DEFINITION, BY VEHICLE TYPE□33

1.2.1□INCLUSIONS AND EXCLUSIONS□34

TABLE 4□INCLUSIONS AND EXCLUSIONS□34

1.3□STUDY SCOPE□35

FIGURE 1□AUTOMOTIVE SOFTWARE MARKET SEGMENTATION□35

1.3.1□REGIONS COVERED□35

1.3.2□YEARS CONSIDERED□36

1.4□CURRENCY CONSIDERED□36

TABLE 5□USD EXCHANGE RATES□36

1.5□STAKEHOLDERS□36

1.6□SUMMARY OF CHANGES□37

2□RESEARCH METHODOLOGY□39

2.1□RESEARCH DATA□39

FIGURE 2□RESEARCH DESIGN□39

FIGURE 3	RESEARCH DESIGN MODEL	40
2.1.1	SECONDARY DATA	40
2.1.1.1	Secondary sources	40
2.1.1.2	Key data from secondary sources	42
2.1.2	PRIMARY DATA	42
2.1.2.1	Breakdown of primary interviews	43
2.1.2.2	Primary participants	43
2.2	MARKET SIZE ESTIMATION	44
FIGURE 4	RESEARCH METHODOLOGY: HYPOTHESIS BUILDING	45
2.2.1	RECESSION IMPACT ANALYSIS	45
2.2.2	BOTTOM-UP APPROACH	46
FIGURE 5	DETAILED ILLUSTRATION OF BOTTOM-UP APPROACH	46
FIGURE 6	BOTTOM-UP APPROACH	47
2.2.3	TOP-DOWN APPROACH	47
FIGURE 7	TOP-DOWN APPROACH	47
FIGURE 8	RESEARCH APPROACH	48
FIGURE 9	MARKET SIZE ESTIMATION NOTES	48
2.3	DATA TRIANGULATION	49
FIGURE 10	DATA TRIANGULATION	49
2.4	FACTOR ANALYSIS	50
FIGURE 11	FACTOR ANALYSIS	50
FIGURE 12	FACTOR ANALYSIS FOR MARKET SIZING: DEMAND AND SUPPLY SIDES	50
2.5	RESEARCH ASSUMPTIONS	51
2.6	RESEARCH LIMITATIONS	51
3	EXECUTIVE SUMMARY	53
FIGURE 13	AUTOMOTIVE SOFTWARE MARKET OVERVIEW	54
FIGURE 14	ASIA PACIFIC TO SECURE LEADING MARKET POSITION DURING FORECAST PERIOD	55
FIGURE 15	PASSENGER CARS TO BE LARGEST SEGMENT DURING FORECAST PERIOD	56
FIGURE 16	KEY PLAYERS IN AUTOMOTIVE SOFTWARE MARKET	56
4	PREMIUM INSIGHTS	58
4.1	ATTRACTIVE OPPORTUNITIES FOR PLAYERS IN AUTOMOTIVE SOFTWARE MARKET	58
FIGURE 17	INCREASE IN DEMAND FOR SAFETY AND DRIVING ASSISTANCE FEATURES	58
4.2	AUTOMOTIVE SOFTWARE MARKET, BY REGION	58
FIGURE 18	ASIA PACIFIC TO DOMINATE MARKET DURING FORECAST PERIOD	58
4.3	AUTOMOTIVE SOFTWARE MARKET, BY ICE APPLICATION	59
FIGURE 19	ADAS & SAFETY SYSTEMS SEGMENT TO HOLD LARGEST MARKET SHARE IN 2030	59
4.4	AUTOMOTIVE SOFTWARE MARKET, BY SOFTWARE LAYER	59
FIGURE 20	APPLICATION SOFTWARE SEGMENT TO ACQUIRE MAXIMUM MARKET SHARE IN 2030	59
4.5	AUTOMOTIVE SOFTWARE MARKET, BY EV APPLICATION	60
FIGURE 21	AUTONOMOUS DRIVING TO BE FASTEST-GROWING SEGMENT IN EV SOFTWARE MARKET DURING FORECAST PERIOD	60
4.6	AUTOMOTIVE SOFTWARE MARKET, BY VEHICLE TYPE	60
FIGURE 22	PASSENGER CARS TO SURPASS OTHER SEGMENTS DURING FORECAST PERIOD	60
5	MARKET OVERVIEW	61
5.1	INTRODUCTION	61
5.2	MARKET DYNAMICS	62
FIGURE 23	AUTOMOTIVE SOFTWARE MARKET DYNAMICS	62
5.2.1	DRIVERS	62

5.2.1.1	Rapid integration of ADAS features in vehicles	62
	FIGURE 24	EVOLUTION OF AUTOMATED SAFETY TECHNOLOGIES
	TABLE 6	INDIA: VEHICLES EQUIPPED WITH ADAS FEATURES
	FIGURE 25	AUTONOMOUS LEVELS WITH REQUIRED ADAS FEATURES
5.2.1.2	Increasing adoption of connected car services	65
	FIGURE 26	CONNECTED CAR FEATURES
5.2.1.3	Advancements in infotainment systems	66
	FIGURE 27	IN-VEHICLE INFOTAINMENT SYSTEMS
5.2.1.4	Rising deployment of ECUs and domain controllers in vehicles	67
	FIGURE 28	IN-VEHICLE ELECTRONICS CONTROLLED VIA BODY CONTROL MODULE
	FIGURE 29	ELECTRONIC CONTROL UNITS PRESENT IN VEHICLES
	FIGURE 30	FUNCTIONING OF DOMAIN CONTROLLERS
5.2.1.5	Growing collaborations between OEMs and software providers	69
5.2.2	RESTRAINTS	70
5.2.2.1	Lack of standard protocols for development of software platforms	70
5.2.2.2	Absence of connected infrastructure and seamless connectivity	70
5.2.2.3	Troubleshooting and maintenance constraints for automotive software	71
5.2.3	OPPORTUNITIES	71
5.2.3.1	Untapped potential of 5G and AI	71
	TABLE 7	RECENT DEVELOPMENTS IN 5G TECHNOLOGY
5.2.3.2	Advent of software-defined vehicles	72
	FIGURE 31	DOMAIN EXPANSION IN AUTOMOTIVE INDUSTRY
	FIGURE 32	CONVENTIONAL VS. SOFTWARE-DEFINED VEHICLES
5.2.3.3	Developments in semi-autonomous and autonomous vehicles	75
	TABLE 8	LAUNCH OF SEMI-AUTONOMOUS VEHICLES, 2021-2024
	FIGURE 33	KEY ASPECTS OF AUTONOMOUS DRIVING
5.2.3.4	Booming sales of premium passenger cars	76
	FIGURE 34	GROWTH IN PREMIUM PASSENGER CAR SALES
5.2.3.5	Adoption of software-over-the-air (SOTA) updates	77
5.2.4	CHALLENGES	78
5.2.4.1	Risk of cyberattacks	78
	TABLE 9	RISK OF CYBERATTACKS IN AUTOMOTIVE INDUSTRY
5.2.4.2	Complexity of vehicle architecture	78
5.2.5	IMPACT OF MARKET DYNAMICS	79
	TABLE 10	IMPACT OF MARKET DYNAMICS
5.3	ECOSYSTEM MAPPING	80
	FIGURE 35	ECOSYSTEM MAPPING
5.3.1	TIER I SUPPLIERS	80
5.3.2	AUTOMOTIVE SOFTWARE DEVELOPERS	80
5.3.3	AUTOMOTIVE OEMS	81
5.3.4	AUTOMOTIVE ECU MANUFACTURERS	81
	TABLE 11	ROLE OF COMPANIES IN ECOSYSTEM
	FIGURE 36	NEW MOBILITY ECOSYSTEM
5.4	TRENDS AND DISRUPTIONS IMPACTING CUSTOMERS' BUSINESSES	83
	FIGURE 37	TRENDS AND DISRUPTIONS IMPACTING CUSTOMERS' BUSINESSES
5.5	SUPPLY CHAIN ANALYSIS	84
	FIGURE 38	SUPPLY CHAIN ANALYSIS

5.6	TECHNOLOGY ANALYSIS	85
5.6.1	INTRODUCTION	85
5.6.2	AUTOMOTIVE SOFTWARE DEVELOPMENT	85
	FIGURE 39 V-MODEL OF AUTOMOTIVE SOFTWARE DEVELOPMENT	85
5.6.2.1	Requirements analysis	86
5.6.2.2	System design	86
5.6.2.3	Component design	86
5.6.2.4	Implementation	86
5.6.2.5	Unit testing	86
5.6.2.6	Integration testing	86
5.6.2.7	System testing	86
5.6.3	CONSOLIDATION OF ECU AND DOMAIN-CONTROLLER	86
	FIGURE 40 EVOLUTION OF DOMAIN CENTRALIZATION ARCHITECTURE	87
5.6.4	OVER-THE-AIR UPDATES	88
5.6.5	AUTOMOTIVE AI	88
5.6.6	CYBERSECURITY FOR IN-VEHICLE SOFTWARE	89
5.6.7	NEED FOR SOFTWARE IN AUTONOMOUS DRIVING	89
	FIGURE 41 SOCIETY OF AUTOMOTIVE ENGINEERS AUTOMATION LEVELS	90
5.6.8	APPLICATION PROGRAM INTERFACE	90
5.6.9	OPEN-SOURCE SOFTWARE (OSS)	91
5.7	AUTOMOTIVE SOFTWARE CONSORTIUMS	91
5.7.1	AUTOSAR	91
	FIGURE 42 3-LAYERED AUTOSAR SOFTWARE ARCHITECTURE	92
5.7.1.1	Basic Software (BSW)	92
5.7.1.2	AUTOSAR Runtime Environment (RTE)	92
5.7.1.3	Application Layer	92
	TABLE 12 BENEFITS OF AUTOSAR FOR CONSORTIUMS	93
5.8	PATENT ANALYSIS	93
5.8.1	INTRODUCTION	93
	FIGURE 43 PATENT PUBLICATION TRENDS, 2012-2022	93
5.8.2	LEGAL STATUS OF PATENTS, 2012-2022	94
	FIGURE 44 LEGAL STATUS OF PATENTS, 2012-2022	94
5.8.3	TOP PATENT APPLICANTS, 2012-2022	94
	FIGURE 45 TOP PATENT APPLICANTS, 2012-2022	94
	TABLE 13 PATENT REGISTRATIONS	95
5.9	CASE STUDIES	98
5.9.1	GREEN HILLS SOFTWARE DELIVERS SAFETY AND SECURITY FOR MAHINDRA RACING'S ALL-ELECTRIC FORMULA E RACE CAR	98
5.9.2	GREEN HILLS SOFTWARE'S INTEGRITY MULTIVISOR POWERS ADVANCEMENTS IN MULTI-OS COCKPIT PLATFORMS FOR MARELLI	98
5.9.3	WIND RIVER AND AIRBIQUITY COLLABORATE ON VEHICLE-TO-CLOUD OTA SOLUTIONS FOR CONNECTED AND AUTONOMOUS CARS	99
5.9.4	GREEN HILLS SOFTWARE AND EXCELFORD COLLABORATE TO OFFER AUTOMOTIVE IN-VEHICLE NETWORKING PRODUCTS FOR ADVANCED VEHICLE GATEWAY PLATFORMS	99
5.10	TARIFF AND REGULATORY LANDSCAPE	99
5.10.1	INTERNATIONAL STANDARDS FOR AUTOMOTIVE SOFTWARE QUALITY	100
5.10.1.1	System and software engineering: ISO/IEC 12207	100
5.10.1.2	Automotive SPICE: ISO/IEC 15504	100

5.10.1.3	Software engineering-product quality: ISO/IEC 9126 and ISO/IEC 25010:2011	100
5.10.1.4	Functional safety road vehicles: ISO 26262 and IEC 61508	100
5.10.2	REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS	101
TABLE 14	NORTH AMERICA: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS	101
TABLE 15	EUROPE: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS	102
TABLE 16	ASIA PACIFIC: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS	103
TABLE 17	REST OF THE WORLD: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS	104
5.11	KEY CONFERENCES AND EVENTS, 2023-2024	105
TABLE 18	KEY CONFERENCES AND EVENTS, 2023-2024	105
5.12	KEY OEM PARTNERSHIPS FOR OS DEVELOPMENT	106
TABLE 19	OEM PARTNERSHIPS FOR OS DEVELOPMENT	106
5.13	KEY OEM DEVELOPMENTS TOWARD IN-HOUSE OS	107
TABLE 20	IN-HOUSE OS DEVELOPMENT BY OEMS	107
5.14	IMPACT OF SOFTWARE-DEFINED VEHICLES ON AUTOMOTIVE SOFTWARE MARKET	108
5.14.1	OPEN-SOURCE PLATFORM FOR SOFTWARE-DEFINED VEHICLES	108
5.14.1.1	Benefits of using open-source platforms for software-defined vehicles	108
5.14.2	SOFTWARE-DEFINED VEHICLE STANDARDS, INITIATIVES, AND OPEN-SOURCE PROJECTS	109
TABLE 21	SOFTWARE-DEFINED VEHICLE STANDARDS, INITIATIVES, AND OPEN-SOURCE PROJECTS	109
5.14.3	ROADMAP FOR SOFTWARE-DEFINED VEHICLES	110
FIGURE 46	HYUNDAI'S ROADMAP FOR SOFTWARE-DEFINED VEHICLES	110
5.14.4	EVOLUTION OF E/E ARCHITECTURE TOWARD CENTRALIZATION	111
FIGURE 47	EVOLUTION OF E/E ARCHITECTURE TOWARD CENTRALIZATION	111
5.14.5	ADAS DOMAIN REQUIREMENTS FOR SOFTWARE-DEFINED VEHICLES	111
5.14.6	DEVELOPMENTS RELATED TO OPEN-SOURCE SOFTWARE AND SOFTWARE-DEFINED VEHICLES, 2022-2023	112
TABLE 22	DEVELOPMENTS RELATED TO OPEN-SOURCE SOFTWARE AND SOFTWARE-DEFINED VEHICLES, 2022-2023	112
5.15	KEY STAKEHOLDERS AND BUYING CRITERIA	113
5.15.1	KEY STAKEHOLDERS IN BUYING PROCESS	113
FIGURE 48	INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS FOR AUTOMOTIVE SOFTWARE	113
TABLE 23	INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS FOR AUTOMOTIVE SOFTWARE (%)	113
5.15.2	BUYING CRITERIA	114
FIGURE 49	KEY BUYING CRITERIA FOR AUTOMOTIVE SOFTWARE	114
TABLE 24	KEY BUYING CRITERIA FOR AUTOMOTIVE SOFTWARE	114
6	AUTOMOTIVE SOFTWARE MARKET, BY ICE APPLICATION	115
6.1	INTRODUCTION	116
FIGURE 50	AUTOMOTIVE SOFTWARE MARKET, BY ICE APPLICATION, 2023-2030	116
TABLE 25	AUTOMOTIVE SOFTWARE MARKET, BY ICE APPLICATION, 2018-2022 (USD MILLION)	116
TABLE 26	AUTOMOTIVE SOFTWARE MARKET, BY ICE APPLICATION, 2023-2030 (USD MILLION)	117
6.1.1	OPERATIONAL DATA	117
TABLE 27	L2 AUTONOMOUS VEHICLE LAUNCHES, 2022-2023	117
6.2	ADAS & SAFETY SYSTEMS	118
6.2.1	RAPID ADOPTION OF ADAS BY AUTOMOTIVE OEMS TO DRIVE GROWTH	118
TABLE 28	ADAS & SAFETY SYSTEMS: AUTOMOTIVE SOFTWARE MARKET, BY REGION, 2018-2022 (USD MILLION)	118
TABLE 29	ADAS & SAFETY SYSTEMS: AUTOMOTIVE SOFTWARE MARKET, BY REGION, 2023-2030 (USD MILLION)	118
6.3	AUTONOMOUS DRIVING	119
6.3.1	ADVANCEMENTS IN AUTOMATION TO DRIVE GROWTH	119
FIGURE 51	AUTONOMOUS DRIVING: LEVELS OF DRIVING AUTOMATION	120
TABLE 30	AUTONOMOUS DRIVING: AUTOMOTIVE SOFTWARE MARKET, BY REGION, 2018-2022 (USD MILLION)	120

TABLE 31	AUTONOMOUS DRIVING: AUTOMOTIVE SOFTWARE MARKET, BY REGION, 2023-2030 (USD MILLION)	121
6.4	BODY CONTROL & COMFORT SYSTEMS	121
6.4.1	FOCUS ON VEHICLE COMFORT AND SAFETY TO DRIVE GROWTH	121
TABLE 32	BODY CONTROL & COMFORT SYSTEMS: AUTOMOTIVE SOFTWARE MARKET, BY REGION, 2018-2022 (USD MILLION)	121
TABLE 33	BODY CONTROL & COMFORT SYSTEMS: AUTOMOTIVE SOFTWARE MARKET, BY REGION, 2023-2030 (USD MILLION)	122
6.5	INFOTAINMENT SYSTEMS	122
6.5.1	CONSUMER DEMAND FOR ENTERTAINMENT AND SEAMLESS CONNECTIVITY TO DRIVE GROWTH	122
TABLE 34	INFOTAINMENT SYSTEMS: AUTOMOTIVE SOFTWARE MARKET, BY REGION, 2018-2022 (USD MILLION)	122
TABLE 35	INFOTAINMENT SYSTEMS: AUTOMOTIVE SOFTWARE MARKET, BY REGION, 2023-2030 (USD MILLION)	123
6.6	ENGINE MANAGEMENT & POWERTRAIN	123
6.6.1	IMPROVED ELECTRONIC CONTROL OF VEHICLE POWERTRAIN TO DRIVE GROWTH	123
TABLE 36	ENGINE MANAGEMENT & POWERTRAIN: AUTOMOTIVE SOFTWARE MARKET, BY REGION, 2018-2022 (USD MILLION)	124
TABLE 37	ENGINE MANAGEMENT & POWERTRAIN: AUTOMOTIVE SOFTWARE MARKET, BY REGION, 2023-2030 (USD MILLION)	124
6.7	VEHICLE TELEMATICS	125
6.7.1	RISE IN ADOPTION OF TELEMATICS SYSTEMS TO DRIVE GROWTH	125
TABLE 38	VEHICLE TELEMATICS: AUTOMOTIVE SOFTWARE MARKET, BY REGION, 2018-2022 (USD MILLION)	125
TABLE 39	VEHICLE TELEMATICS: AUTOMOTIVE SOFTWARE MARKET, BY REGION, 2023-2030 (USD MILLION)	125
6.8	KEY PRIMARY INSIGHTS	126
7	AUTOMOTIVE SOFTWARE MARKET, BY SOFTWARE LAYER	127
7.1	INTRODUCTION	128
FIGURE 52	SOFTWARE LAYER: IN CLOUD VS. IN CAR	128
FIGURE 53	AUTOMOTIVE SOFTWARE MARKET, BY SOFTWARE LAYER, 2023-2030	129
TABLE 40	AUTOMOTIVE SOFTWARE MARKET, BY SOFTWARE LAYER, 2018-2022 (USD MILLION)	129
TABLE 41	AUTOMOTIVE SOFTWARE MARKET, BY SOFTWARE LAYER, 2023-2030 (USD MILLION)	129
7.1.1	OPERATIONAL DATA	130
TABLE 42	AUTOMOTIVE SOFTWARE LAYER OFFERING, BY KEY PLAYER	130
7.2	MIDDLEWARE	130
7.2.1	INCREASING PREFERENCE FOR ADAS FEATURES TO DRIVE GROWTH	130
TABLE 43	MIDDLEWARE: AUTOMOTIVE SOFTWARE MARKET, BY REGION, 2018-2022 (USD MILLION)	130
TABLE 44	MIDDLEWARE: AUTOMOTIVE SOFTWARE MARKET, BY REGION, 2023-2030 (USD MILLION)	131
7.3	APPLICATION SOFTWARE	131
7.3.1	SHIFT TOWARD SOFTWARE-DEFINED VEHICLES TO DRIVE GROWTH	131
TABLE 45	APPLICATION SOFTWARE: AUTOMOTIVE SOFTWARE MARKET, BY REGION, 2018-2022 (USD MILLION)	131
TABLE 46	APPLICATION SOFTWARE: AUTOMOTIVE SOFTWARE MARKET, BY REGION, 2023-2030 (USD MILLION)	132
7.4	OPERATING SYSTEM	132
7.4.1	RIISING DEMAND FOR CONNECTED CARS TO DRIVE GROWTH	132
TABLE 47	OPERATING SYSTEM: AUTOMOTIVE SOFTWARE MARKET, BY REGION, 2018-2022 (USD MILLION)	133
TABLE 48	OPERATING SYSTEM: AUTOMOTIVE SOFTWARE MARKET, BY REGION, 2023-2030 (USD MILLION)	133
7.5	KEY PRIMARY INSIGHTS	133
8	AUTOMOTIVE SOFTWARE MARKET, BY VEHICLE TYPE	134
8.1	INTRODUCTION	135
FIGURE 54	AUTOMOTIVE SOFTWARE MARKET, BY VEHICLE TYPE, 2023-2030	135
TABLE 49	AUTOMOTIVE SOFTWARE MARKET, BY VEHICLE TYPE, 2018-2022 (USD MILLION)	135
TABLE 50	AUTOMOTIVE SOFTWARE MARKET, BY VEHICLE TYPE, 2023-2030 (USD MILLION)	136
8.1.1	OPERATIONAL DATA	136
TABLE 51	AUTOMOBILE PRODUCTION, BY COUNTRY, 2022 (THOUSAND UNITS)	136
8.2	PASSENGER CARS	136

8.2.1	HIGH PENETRATION OF AUTOMOTIVE SOFTWARE TO DRIVE GROWTH	136
TABLE 52	PASSENGER CARS: AUTOMOTIVE SOFTWARE MARKET, BY REGION, 2018-2022 (USD MILLION)	137
TABLE 53	PASSENGER CARS: AUTOMOTIVE SOFTWARE MARKET, BY REGION, 2023-2030 (USD MILLION)	137
8.2.1.1	A-Segment	138
8.2.1.2	B-Segment	138
8.2.1.3	C-Segment	138
8.2.1.4	D-Segment	138
8.2.1.5	E-Segment	139
8.2.1.6	F-Segment	139
8.2.1.7	SUVs and MUVs	139
8.3	LIGHT COMMERCIAL VEHICLES	140
8.3.1	RISE IN DEMAND FOR ADVANCED VEHICLE FEATURES TO DRIVE GROWTH	140
TABLE 54	LIGHT COMMERCIAL VEHICLES: AUTOMOTIVE SOFTWARE MARKET, BY REGION, 2018-2022 (USD MILLION)	140
TABLE 55	LIGHT COMMERCIAL VEHICLES: AUTOMOTIVE SOFTWARE MARKET, BY REGION, 2023-2030 (USD MILLION)	140
8.4	HEAVY COMMERCIAL VEHICLES	141
8.4.1	RAPID DEPLOYMENT OF SOFTWARE-BASED ELECTRONICS TO DRIVE GROWTH	141
TABLE 56	HEAVY COMMERCIAL VEHICLES: AUTOMOTIVE SOFTWARE MARKET, BY REGION, 2018-2022 (USD MILLION)	141
TABLE 57	HEAVY COMMERCIAL VEHICLES: AUTOMOTIVE SOFTWARE MARKET, BY REGION, 2023-2030 (USD MILLION)	142
8.5	KEY PRIMERY INSIGHTS	142
9	AUTOMOTIVE SOFTWARE MARKET, BY EV APPLICATION	143
9.1	INTRODUCTION	144
FIGURE 55	AUTOMOTIVE SOFTWARE MARKET, BY EV APPLICATION, 2023-2030	144
TABLE 58	AUTOMOTIVE SOFTWARE MARKET, BY EV APPLICATION, 2018-2022 (USD MILLION)	144
TABLE 59	AUTOMOTIVE SOFTWARE MARKET, BY EV APPLICATION, 2023-2030 (USD MILLION)	145
9.1.1	OPERATIONAL DATA	145
TABLE 60	ELECTRIC CAR SALES, BY REGION, 2020-2022 (MILLION UNITS)	145
9.2	ELECTRIC DRIVE	146
9.2.1	FOCUS ON ELECTRIC MOBILITY TO DRIVE GROWTH	146
TABLE 61	LEVEL 2 BEV LAUNCHES, 2021-2023	146
TABLE 62	ELECTRIC DRIVE: EV AUTOMOTIVE SOFTWARE MARKET, BY REGION, 2018-2022 (USD MILLION)	147
TABLE 63	ELECTRIC DRIVE: EV AUTOMOTIVE SOFTWARE MARKET, BY REGION, 2023-2030 (USD MILLION)	147
9.3	BATTERY MANAGEMENT SYSTEMS	148
9.3.1	RIISING PREVALENCE OF ELECTRIC VEHICLES TO DRIVE GROWTH	148
TABLE 64	BATTERY MANAGEMENT SYSTEMS: EV AUTOMOTIVE SOFTWARE MARKET, BY REGION, 2018-2022 (USD MILLION)	148
TABLE 65	BATTERY MANAGEMENT SYSTEMS: EV AUTOMOTIVE SOFTWARE MARKET, BY REGION, 2023-2030 (USD MILLION)	148
9.4	ADAS & SAFETY SYSTEMS	149
9.4.1	RAPID ADOPTION OF ADAS FEATURES IN ELECTRIC VEHICLES TO DRIVE GROWTH	149
TABLE 66	ADAS & SAFETY SYSTEMS: EV AUTOMOTIVE SOFTWARE MARKET, BY REGION, 2018-2022 (USD MILLION)	149
TABLE 67	ADAS & SAFETY SYSTEMS: EV AUTOMOTIVE SOFTWARE MARKET, BY REGION, 2023-2030 (USD MILLION)	149
9.5	AUTONOMOUS DRIVING	150
9.5.1	ADVANTAGES OF ELECTRIC VEHICLES OVER GASOLINE-POWERED VEHICLES TO DRIVE GROWTH	150
TABLE 68	AUTONOMOUS DRIVING: EV AUTOMOTIVE SOFTWARE MARKET, BY REGION, 2018-2022 (USD MILLION)	150
TABLE 69	AUTONOMOUS DRIVING: EV AUTOMOTIVE SOFTWARE MARKET, BY REGION, 2023-2030 (USD MILLION)	150
9.6	BODY CONTROL & COMFORT SYSTEMS	151
9.6.1	DEVELOPMENT OF PANORAMIC SUNROOFS AND NOISE CANCELLATION SYSTEMS TO DRIVE GROWTH	151
TABLE 70	BODY CONTROL & COMFORT SYSTEMS: EV AUTOMOTIVE SOFTWARE MARKET, BY REGION, 2018-2022 (USD MILLION)	151
TABLE 71	BODY CONTROL & COMFORT SYSTEMS: EV AUTOMOTIVE SOFTWARE MARKET, BY REGION, 2023-2030 (USD MILLION)	151

9.7	INFOTAINMENT SYSTEMS	152
9.7.1	INNOVATIONS SUCH AS 3D NAVIGATION AND OVER-THE-AIR UPGRADES TO DRIVE GROWTH	152
TABLE 72	INFOTAINMENT SYSTEMS: EV AUTOMOTIVE SOFTWARE MARKET, BY REGION, 2018-2022 (USD MILLION)	152
TABLE 73	INFOTAINMENT SYSTEMS: EV AUTOMOTIVE SOFTWARE MARKET, BY REGION, 2023-2030 (USD MILLION)	152
9.8	ENGINE MANAGEMENT & POWERTRAIN	153
9.8.1	BOOMING SALES OF PLUG-IN HYBRID ELECTRIC VEHICLES (PHEVS) TO DRIVE GROWTH	153
TABLE 74	ENGINE MANAGEMENT & POWERTRAIN: EV AUTOMOTIVE SOFTWARE MARKET, BY REGION, 2018-2022 (USD MILLION)	153
TABLE 75	ENGINE MANAGEMENT & POWERTRAIN: EV AUTOMOTIVE SOFTWARE MARKET, BY REGION, 2023-2030 (USD MILLION)	153
9.9	VEHICLE TELEMATICS	154
9.9.1	AUTOMATION IN ELECTRIC VEHICLES TO DRIVE GROWTH	154
TABLE 76	VEHICLE TELEMATICS: EV AUTOMOTIVE SOFTWARE MARKET, BY REGION, 2018-2022 (USD MILLION)	154
TABLE 77	VEHICLE TELEMATICS: EV AUTOMOTIVE SOFTWARE MARKET, BY REGION, 2023-2030 (USD MILLION)	154
9.10	KEY PRIMARY INSIGHTS	155
10	AUTOMOTIVE SOFTWARE MARKET, BY REGION	156
10.1	INTRODUCTION	157
FIGURE 56	AUTOMOTIVE SOFTWARE MARKET, BY REGION, 2023-2030	157
FIGURE 57	ASIA PACIFIC TO BE LARGEST MARKET FOR AUTOMOTIVE SOFTWARE DURING FORECAST PERIOD	158
TABLE 78	AUTOMOTIVE SOFTWARE MARKET, BY REGION, 2018-2022 (USD MILLION)	158
TABLE 79	AUTOMOTIVE SOFTWARE MARKET, BY REGION, 2023-2030 (USD MILLION)	158
10.2	ASIA PACIFIC	159
10.2.1	RECESSION IMPACT ANALYSIS	159
FIGURE 58	ASIA PACIFIC: AUTOMOTIVE SOFTWARE MARKET SNAPSHOT	160
TABLE 80	ASIA PACIFIC: AUTOMOTIVE SOFTWARE MARKET, BY COUNTRY, 2018-2022 (USD MILLION)	161
TABLE 81	ASIA PACIFIC: AUTOMOTIVE SOFTWARE MARKET, BY COUNTRY, 2023-2030 (USD MILLION)	161
10.2.2	CHINA	162
10.2.2.1	Developed V2X networking to drive growth	162
TABLE 82	CHINA: C-V2X-ENABLED VEHICLE LAUNCHES, 2020-2022	162
TABLE 83	CHINA: VEHICLE PRODUCTION DATA, 2018 VS. 2022 (THOUSAND UNITS)	163
TABLE 84	CHINA: ADAS-EQUIPPED VEHICLE LAUNCHES, 2021-2022	163
TABLE 85	CHINA: AUTOMOTIVE SOFTWARE MARKET, BY ICE APPLICATION, 2018-2022 (USD MILLION)	165
TABLE 86	CHINA: AUTOMOTIVE SOFTWARE MARKET, BY ICE APPLICATION, 2023-2030 (USD MILLION)	165
10.2.3	INDIA	166
10.2.3.1	Rising inclination toward autonomous vehicles to drive growth	166
TABLE 87	INDIA: ADAS-EQUIPPED VEHICLE LAUNCHES, 2021-2022	166
TABLE 88	INDIA: AUTOMOTIVE SOFTWARE MARKET, BY ICE APPLICATION, 2018-2022 (USD MILLION)	166
TABLE 89	INDIA: AUTOMOTIVE SOFTWARE MARKET, BY ICE APPLICATION, 2023-2030 (USD MILLION)	167
10.2.4	JAPAN	167
10.2.4.1	Standardization of ADAS by domestic OEMs to drive growth	167
TABLE 90	JAPAN: ADAS-EQUIPPED VEHICLE LAUNCHES, 2021-2022	168
TABLE 91	JAPAN: AUTOMOTIVE SOFTWARE MARKET, BY ICE APPLICATION, 2018-2022 (USD MILLION)	169
TABLE 92	JAPAN: AUTOMOTIVE SOFTWARE MARKET, BY ICE APPLICATION, 2023-2030 (USD MILLION)	170
10.2.5	SOUTH KOREA	170
10.2.5.1	High demand for passenger cars with advanced safety systems to drive growth	170
TABLE 93	SOUTH KOREA: ADAS-EQUIPPED VEHICLE LAUNCHES, 2020-2022	171
TABLE 94	SOUTH KOREA: AUTOMOTIVE SOFTWARE MARKET, BY ICE APPLICATION, 2018-2022 (USD MILLION)	171
TABLE 95	SOUTH KOREA: AUTOMOTIVE SOFTWARE MARKET, BY ICE APPLICATION, 2023-2030 (USD MILLION)	172
10.2.6	THAILAND	172

10.2.6.1 Expanding vehicle production to drive growth 172

TABLE 96 THAILAND: AUTOMOTIVE SOFTWARE MARKET, BY ICE APPLICATION, 2018-2022 (USD MILLION) 173

TABLE 97 THAILAND: AUTOMOTIVE SOFTWARE MARKET, BY ICE APPLICATION, 2023-2030 (USD MILLION) 173

10.2.7 REST OF ASIA PACIFIC 174

TABLE 98 REST OF ASIA PACIFIC: AUTOMOTIVE SOFTWARE MARKET, BY ICE APPLICATION, 2018-2022 (USD MILLION) 174

TABLE 99 REST OF ASIA PACIFIC: AUTOMOTIVE SOFTWARE MARKET, BY ICE APPLICATION, 2023-2030 (USD MILLION) 174

10.3 EUROPE 175

10.3.1 RECESSION IMPACT ANALYSIS 175

FIGURE 59 EUROPE: AUTOMOTIVE SOFTWARE MARKET, BY COUNTRY 176

TABLE 100 EUROPE: AUTOMOTIVE SOFTWARE MARKET, BY COUNTRY, 2018-2022 (USD MILLION) 176

TABLE 101 EUROPE: AUTOMOTIVE SOFTWARE MARKET, BY COUNTRY, 2023-2030 (USD MILLION) 177

10.3.2 GERMANY 177

10.3.2.1 Rising sales of premium cars with advanced software to drive growth 177

TABLE 102 GERMANY: ADAS-EQUIPPED VEHICLE LAUNCHES, 2021-2022 178

TABLE 103 GERMANY: AUTOMOTIVE SOFTWARE MARKET, BY ICE APPLICATION, 2018-2022 (USD MILLION) 179

TABLE 104 GERMANY: AUTOMOTIVE SOFTWARE MARKET, BY ICE APPLICATION, 2023-2030 (USD MILLION) 179

10.3.3 FRANCE 180

10.3.3.1 Increasing investments in autonomous vehicles to drive growth 180

TABLE 105 FRANCE: ADAS-EQUIPPED VEHICLE LAUNCHES, 2021-2022 180

TABLE 106 FRANCE: AUTOMOTIVE SOFTWARE MARKET, BY ICE APPLICATION, 2018-2022 (USD MILLION) 181

TABLE 107 FRANCE: AUTOMOTIVE SOFTWARE MARKET, BY ICE APPLICATION, 2023-2030 (USD MILLION) 181

10.3.4 UK 182

10.3.4.1 Predominance of premium car segment to drive growth 182

FIGURE 60 KEY INSIGHTS ON UK'S AUTOMOTIVE INDUSTRY 183

TABLE 108 UK: ADAS-EQUIPPED VEHICLE LAUNCHES, 2020-2022 183

TABLE 109 UK: AUTOMOTIVE SOFTWARE MARKET, BY ICE APPLICATION, 2018-2022 (USD MILLION) 184

TABLE 110 UK: AUTOMOTIVE SOFTWARE MARKET, BY ICE APPLICATION, 2023-2030 (USD MILLION) 184

10.3.5 SPAIN 185

10.3.5.1 Adoption of advanced vehicle technologies to drive growth 185

TABLE 111 SPAIN: AUTOMOTIVE SOFTWARE MARKET, BY ICE APPLICATION, 2018-2022 (USD MILLION) 185

TABLE 112 SPAIN: AUTOMOTIVE SOFTWARE MARKET, BY ICE APPLICATION, 2023-2030 (USD MILLION) 186

10.3.6 ITALY 186

10.3.6.1 Rising deployment of software-based applications to drive growth 186

TABLE 113 ITALY: AUTOMOTIVE SOFTWARE MARKET, BY ICE APPLICATION, 2018-2022 (USD MILLION) 187

TABLE 114 ITALY: AUTOMOTIVE SOFTWARE MARKET, BY ICE APPLICATION, 2023-2030 (USD MILLION) 187

10.3.7 RUSSIA 188

10.3.7.1 Favorable government initiatives to drive growth 188

TABLE 115 RUSSIA: AUTOMOTIVE SOFTWARE MARKET, BY ICE APPLICATION, 2018-2022 (USD MILLION) 188

TABLE 116 RUSSIA: AUTOMOTIVE SOFTWARE MARKET, BY ICE APPLICATION, 2023-2030 (USD MILLION) 188

10.3.8 TURKEY 189

10.3.8.1 Focus on autonomous mobility to drive growth 189

TABLE 117 TURKEY: VEHICLE PRODUCTION DATA (THOUSAND UNITS) 189

TABLE 118 TURKEY: AUTOMOTIVE SOFTWARE MARKET, BY ICE APPLICATION, 2018-2022 (USD MILLION) 189

TABLE 119 TURKEY: AUTOMOTIVE SOFTWARE MARKET, BY ICE APPLICATION, 2023-2030 (USD MILLION) 190

10.3.9 REST OF EUROPE 190

TABLE 120 REST OF EUROPE: AUTOMOTIVE SOFTWARE MARKET, BY ICE APPLICATION, 2018-2022 (USD MILLION) 190

TABLE 121 REST OF EUROPE: AUTOMOTIVE SOFTWARE MARKET, BY ICE APPLICATION, 2023-2030 (USD MILLION) 191

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10.4	NORTH AMERICA	191
10.4.1	RECESSION IMPACT ANALYSIS	192
FIGURE 61	NORTH AMERICA: AUTOMOTIVE SOFTWARE MARKET SNAPSHOT	192
TABLE 122	NORTH AMERICA: AUTOMOTIVE SOFTWARE MARKET, BY COUNTRY, 2018-2022 (USD MILLION)	193
TABLE 123	NORTH AMERICA: AUTOMOTIVE SOFTWARE MARKET, BY COUNTRY, 2023-2030 (USD MILLION)	193
10.4.2	US	193
10.4.2.1	Collaborations between automotive OEMs and software manufacturers to drive growth	193
TABLE 124	US: LAUNCH OF SEMI-AUTONOMOUS VEHICLES, 2021-2023	194
TABLE 125	US: AUTOMOTIVE SOFTWARE MARKET, BY ICE APPLICATION, 2018-2022 (USD MILLION)	194
TABLE 126	US: AUTOMOTIVE SOFTWARE MARKET, BY ICE APPLICATION, 2023-2030 (USD MILLION)	195
10.4.3	CANADA	195
10.4.3.1	Rising consumer awareness about safety to drive growth	195
TABLE 127	CANADA: AUTOMOTIVE SOFTWARE MARKET, BY ICE APPLICATION, 2018-2022 (USD MILLION)	196
TABLE 128	CANADA: AUTOMOTIVE SOFTWARE MARKET, BY ICE APPLICATION, 2023-2030 (USD MILLION)	196
10.4.4	MEXICO	197
10.4.4.1	Emphasis on advanced telematics solutions to drive growth	197
TABLE 129	MEXICO: AUTOMOTIVE SOFTWARE MARKET, BY ICE APPLICATION, 2018-2022 (USD MILLION)	197
TABLE 130	MEXICO: AUTOMOTIVE SOFTWARE MARKET, BY ICE APPLICATION, 2023-2030 (USD MILLION)	198
10.5	LATIN AMERICA	198
10.5.1	RECESSION IMPACT ANALYSIS	198
FIGURE 62	LATIN AMERICA: AUTOMOTIVE SOFTWARE MARKET, BY COUNTRY	199
TABLE 131	LATIN AMERICA: AUTOMOTIVE SOFTWARE MARKET, BY COUNTRY, 2018-2022 (USD MILLION)	199
TABLE 132	LATIN AMERICA: AUTOMOTIVE SOFTWARE MARKET, BY COUNTRY, 2023-2030 (USD MILLION)	199
10.5.2	BRAZIL	200
10.5.2.1	Increasing preference for autonomous driving technology to drive growth	200
TABLE 133	BRAZIL: AUTOMOTIVE SOFTWARE MARKET, BY ICE APPLICATION, 2018-2022 (USD MILLION)	200
TABLE 134	BRAZIL: AUTOMOTIVE SOFTWARE MARKET, BY ICE APPLICATION, 2023-2030 (USD MILLION)	201
10.5.3	ARGENTINA	201
10.5.3.1	Rising penetration of ADAS to drive growth	201
TABLE 135	ARGENTINA: AUTOMOTIVE SOFTWARE MARKET, BY ICE APPLICATION, 2018-2022 (USD MILLION)	202
TABLE 136	ARGENTINA: AUTOMOTIVE SOFTWARE MARKET, BY ICE APPLICATION, 2023-2030 (USD MILLION)	202
10.5.4	REST OF LATIN AMERICA	203
TABLE 137	REST OF LATIN AMERICA: AUTOMOTIVE SOFTWARE MARKET, BY ICE APPLICATION, 2018-2022 (USD MILLION)	203
TABLE 138	REST OF LATIN AMERICA: AUTOMOTIVE SOFTWARE MARKET, BY ICE APPLICATION, 2023-2030 (USD MILLION)	204
10.6	REST OF THE WORLD	204
10.6.1	RECESSION IMPACT ANALYSIS	205
FIGURE 63	REST OF THE WORLD: AUTOMOTIVE SOFTWARE MARKET, BY COUNTRY	205
TABLE 139	REST OF THE WORLD: AUTOMOTIVE SOFTWARE MARKET, BY COUNTRY, 2018-2022 (USD MILLION)	205
TABLE 140	REST OF THE WORLD: AUTOMOTIVE SOFTWARE MARKET, BY COUNTRY, 2023-2030 (USD MILLION)	206
10.6.2	IRAN	206
10.6.2.1	Upcoming automotive software projects to drive growth	206
TABLE 141	IRAN: AUTOMOTIVE SOFTWARE MARKET, BY ICE APPLICATION, 2018-2022 (USD MILLION)	206
TABLE 142	IRAN: AUTOMOTIVE SOFTWARE MARKET, BY ICE APPLICATION, 2023-2030 (USD MILLION)	207
10.6.3	SOUTH AFRICA	207
10.6.3.1	Development of new vehicle technologies by OEMs to drive growth	207
TABLE 143	SOUTH AFRICA: AUTOMOTIVE SOFTWARE MARKET, BY ICE APPLICATION, 2018-2022 (USD MILLION)	208
TABLE 144	SOUTH AFRICA: AUTOMOTIVE SOFTWARE MARKET, BY ICE APPLICATION, 2023-2030 (USD MILLION)	208

10.6.4	OTHERS	209
TABLE 145	OTHERS: AUTOMOTIVE SOFTWARE MARKET, BY ICE APPLICATION, 2018-2022 (USD MILLION)	209
TABLE 146	OTHERS: AUTOMOTIVE SOFTWARE MARKET, BY ICE APPLICATION, 2023-2030 (USD MILLION)	209
11	COMPETITIVE LANDSCAPE	211
11.1	OVERVIEW	211
11.2	MARKET RANKING ANALYSIS, 2022	211
FIGURE 64	MARKET RANKING OF TOP PLAYERS, 2022	211
11.3	REVENUE ANALYSIS, 2022	213
FIGURE 65	REVENUE ANALYSIS OF TOP PLAYERS, 2022	213
11.4	COMPANY EVALUATION MATRIX, 2022	213
11.4.1	STARS	213
11.4.2	EMERGING LEADERS	213
11.4.3	PERVASIVE PLAYERS	214
11.4.4	PARTICIPANTS	214
FIGURE 66	COMPANY EVALUATION MATRIX, 2022	214
11.4.5	COMPANY FOOTPRINT	215
TABLE 147	COMPANY FOOTPRINT, 2022	215
TABLE 148	REGION FOOTPRINT, 2022	215
TABLE 149	SOFTWARE LAYER FOOTPRINT, 2022	216
11.5	START-UP/SME EVALUATION MATRIX, 2022	216
11.5.1	PROGRESSIVE COMPANIES	216
11.5.2	RESPONSIVE COMPANIES	216
11.5.3	DYNAMIC COMPANIES	216
11.5.4	STARTING BLOCKS	217
FIGURE 67	START-UP/SME EVALUATION MATRIX, 2022	217
11.5.5	COMPETITIVE BENCHMARKING	218
TABLE 150	KEY START-UPS/SMES	218
TABLE 151	COMPETITIVE BENCHMARKING OF KEY START-UPS/SMES	218
11.6	COMPETITIVE SCENARIO	219
11.6.1	PRODUCT DEVELOPMENTS	219
TABLE 152	PRODUCT DEVELOPMENTS, 2021-2023	219
11.6.2	DEALS	220
TABLE 153	DEALS, 2021-2023	220
11.6.3	OTHERS	222
TABLE 154	OTHERS, 2021-2023	222
11.7	RIGHT TO WIN, 2021-2023	223
TABLE 155	RIGHT TO WIN, 2021-2023	223
12	COMPANY PROFILES	225
12.1	KEY PLAYERS	225
(Business overview, Products offered, Recent developments, MnM view, Key strengths, Strategic choices, and Weaknesses and Competitive threats)*		
12.1.1	ROBERT BOSCH GMBH	225
TABLE 156	ROBERT BOSCH GMBH: COMPANY OVERVIEW	225
FIGURE 68	ROBERT BOSCH GMBH: COMPANY SNAPSHOT	226
TABLE 157	ROBERT BOSCH GMBH: PRODUCTS OFFERED	226
TABLE 158	ROBERT BOSCH GMBH: PRODUCT DEVELOPMENTS	227
TABLE 159	ROBERT BOSCH GMBH: DEALS	227

TABLE 160	ROBERT BOSCH GMBH: OTHERS	228
12.1.2	IXP SEMICONDUCTORS	229
TABLE 161	IXP SEMICONDUCTORS: COMPANY OVERVIEW	229
FIGURE 69	IXP SEMICONDUCTORS: COMPANY SNAPSHOT	229
TABLE 162	IXP SEMICONDUCTORS: PRODUCTS OFFERED	230
TABLE 163	IXP SEMICONDUCTORS: DEALS	230
12.1.3	NVIDIA CORPORATION	232
TABLE 164	NVIDIA CORPORATION: COMPANY OVERVIEW	232
FIGURE 70	NVIDIA CORPORATION: COMPANY SNAPSHOT	233
TABLE 165	NVIDIA CORPORATION: PRODUCTS OFFERED	233
TABLE 166	NVIDIA CORPORATION: DEALS	234
12.1.4	BLACKBERRY LIMITED	236
TABLE 167	BLACKBERRY LIMITED: COMPANY OVERVIEW	236
FIGURE 71	BLACKBERRY LIMITED: COMPANY SNAPSHOT	237
TABLE 168	BLACKBERRY LIMITED: PRODUCTS OFFERED	237
FIGURE 72	AUTOMOTIVE SECULAR TRENDS BY BLACKBERRY LIMITED	238
TABLE 169	BLACKBERRY LIMITED: PRODUCT DEVELOPMENTS	238
FIGURE 73	BLACKBERRY IVY CREATES OPPORTUNITY TO HARNESS DATA IN CAR	239
FIGURE 74	BLACKBERRY IVY'S MARKET POTENTIAL	239
TABLE 170	BLACKBERRY LIMITED: DEALS	240
TABLE 171	BLACKBERRY LIMITED: OTHERS	240
12.1.5	CONTINENTAL AG	242
TABLE 172	CONTINENTAL AG: COMPANY OVERVIEW	242
FIGURE 75	CONTINENTAL AG: COMPANY SNAPSHOT	243
TABLE 173	CONTINENTAL AG: PRODUCTS OFFERED	243
TABLE 174	CONTINENTAL AG: PRODUCT DEVELOPMENTS	244
FIGURE 76	TRENDS AND CHANGES IN AUTONOMOUS MOBILITY MARKET	244
TABLE 175	CONTINENTAL AG: DEALS	245
TABLE 176	CONTINENTAL AG: OTHERS	246
12.1.6	ALPHABET INC.	248
TABLE 177	ALPHABET INC.: COMPANY OVERVIEW	248
FIGURE 77	ALPHABET INC.: COMPANY SNAPSHOT	248
TABLE 178	ALPHABET INC.: KEY CUSTOMERS	249
TABLE 179	ALPHABET INC.: PRODUCTS OFFERED	249
TABLE 180	ALPHABET INC.: DEALS	249
12.1.7	AUTOMOTIVE GRADE LINUX	250
TABLE 181	AUTOMOTIVE GRADE LINUX: COMPANY OVERVIEW	250
TABLE 182	AUTOMOTIVE GRADE LINUX: PRODUCTS OFFERED	250
TABLE 183	AUTOMOTIVE GRADE LINUX: KEY CUSTOMERS	250
TABLE 184	AUTOMOTIVE GRADE LINUX: DEALS	251
12.1.8	GREEN HILLS SOFTWARE	252
TABLE 185	GREEN HILLS SOFTWARE: COMPANY OVERVIEW	252
TABLE 186	GREEN HILLS SOFTWARE: PRODUCTS OFFERED	252
TABLE 187	GREEN HILLS SOFTWARE: PRODUCT DEVELOPMENTS	252
TABLE 188	GREEN HILLS SOFTWARE: DEALS	253
12.1.9	APTIV	254
TABLE 189	APTIV: COMPANY OVERVIEW	254

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FIGURE 78 APTIV: COMPANY SNAPSHOT 255

TABLE 190 APTIV: PRODUCTS OFFERED 255

TABLE 191 APTIV: DEALS 256

TABLE 192 APTIV: OTHERS 256

12.1.10 MOBILEYE 257

TABLE 193 MOBILEYE: COMPANY OVERVIEW 257

FIGURE 79 MOBILEYE: COMPANY SNAPSHOT 257

TABLE 194 MOBILEYE: PRODUCTS OFFERED 258

FIGURE 80 MOBILEYE: PRODUCT PORTFOLIO 258

TABLE 195 MOBILEYE: PRODUCT DEVELOPMENTS 258

TABLE 196 MOBILEYE: DEALS 259

12.2 OTHER PLAYERS 260

12.2.1 AIRBIQUITY INC. 260

TABLE 197 AIRBIQUITY INC.: COMPANY OVERVIEW 260

12.2.2 KPIT 260

TABLE 198 KPIT: COMPANY OVERVIEW 260

12.2.3 TOMTOM INTERNATIONAL BV 261

TABLE 199 TOMTOM INTERNATIONAL BV: COMPANY OVERVIEW 261

12.2.4 SIGMA SOFTWARE 261

TABLE 200 SIGMA SOFTWARE: COMPANY OVERVIEW 261

12.2.5 SIEMENS 262

TABLE 201 SIEMENS: COMPANY OVERVIEW 262

12.2.6 ZF FRIEDRICHSHAFEN AG 262

TABLE 202 ZF FRIEDRICHSHAFEN AG: COMPANY OVERVIEW 262

12.2.7 DCX TECHNOLOGY 263

TABLE 203 DCX TECHNOLOGY: COMPANY OVERVIEW 263

12.2.8 RED HAT, INC. 263

TABLE 204 RED HAT, INC.: COMPANY OVERVIEW 263

12.2.9 MONTAVISTA SOFTWARE, LLC. 264

TABLE 205 MONTAVISTA SOFTWARE, LLC.: COMPANY OVERVIEW 264

12.2.10 AIMOTIVE 264

TABLE 206 AIMOTIVE: COMPANY OVERVIEW 264

*Details on Business overview, Products offered, Recent developments, MnM view, Key strengths, Strategic choices, and Weaknesses and Competitive threats might not be captured in case of unlisted companies.

13 RECOMMENDATIONS BY MARKETSANDMARKETS 265

13.1 ASIA PACIFIC TO BE LUCRATIVE MARKET FOR AUTOMOTIVE SOFTWARE 265

13.2 AUTONOMOUS DRIVING TO EMERGE AS CRITICAL APPLICATION 265

13.3 ADAS & SAFETY SYSTEMS TO BE PROMISING SEGMENT 265

13.4 CONCLUSION 266

14 APPENDIX 267

14.1 KEY INSIGHTS FROM INDUSTRY EXPERTS 267

14.2 DISCUSSION GUIDE 267

14.3 KNOWLEDGESTORE: MARKETSANDMARKETS' SUBSCRIPTION PORTAL 271

14.4 CUSTOMIZATION OPTIONS 273

14.4.1 ADDITIONAL MARKET PLAYERS (UP TO 5) 273

14.4.2 AUTOMOTIVE SOFTWARE MARKET, BY EV APPLICATION, AT COUNTRY LEVEL 273

14.4.3 AUTOMOTIVE SOFTWARE MARKET, BY VEHICLE TYPE, AT COUNTRY LEVEL 273

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14.5 RELATED REPORTS 273

14.6 AUTHOR DETAILS 274

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