

Automotive and 5G Industry Integration Development Report, 2020

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STUDY GOAL AND OBJECTIVES

This report provides the industry executives with strategically significant competitor information, analysis, insight and projection on the competitive pattern and key companies in the industry, crucial to the development and implementation of effective business, marketing and R&D programs.

REPORT OBJECTIVES

- To establish a comprehensive, factual, annually updated and costeffective information base on market size, competition patterns, market segments, goals and strategies of the leading players in the market, reviews and forecasts.
- To assist potential market entrants in evaluating prospective acquisition and joint venture candidates.
- To complement the organizations' internal competitor information gathering efforts with strategic analysis, data interpretation and insight.
- To suggest for concerned investors in line with the current development of this industry as well as the development tendency.
- To help company to succeed in a competitive market, and

METHODOLOGY

Both primary and secondary research methodologies were used in preparing this study. Initially, a comprehensive and exhaustive search of the literature on this industry was conducted. These sources included related books and journals, trade literature, marketing literature, other product/promotional literature, annual reports, security analyst reports, and other publications. Subsequently, telephone interviews or email correspondence was conducted with marketing executives etc. Other sources included related magazines, academics, and consulting companies.

INFORMATION SOURCES

The primary information sources include Company Reports, and National Bureau of Statistics of China etc.

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Abstract

ResearchInChina has recently released Automotive and 5G Industry Integration Development Report, 2020, demonstrating the status quo and trends of the automotive 5G industry, the 5G promotion by industry alliances, operators, and OEMs, as well as 8 application scenarios of 5G cars, etc.

Report Highlights

- ◆ Industry alliances promote automotive 5G demonstration projects
- ◆ Operators take the lead in promoting 5G infrastructure construction
- ♦ OEMs scramble to launch 5G models
- ◆ 5G in 8 typical automotive application scenarios

5G is an important condition for the realization of autonomous driving, during which the shorter the time it takes for the sensor from monitoring road conditions to commanding the vehicle's "brain" to respond, the higher the safety of autonomous driving. Therefore, it poses requirement of high reliability and low latency on the communication network.

The 5G network will promote the rapid development of the connected collaborative autonomous driving technology in China. In November 2020, the General Office of the State Council issued New Energy Vehicle Industry Development Plan (2021-2035), proposing to boost the synergy of electrification, interconnection and intelligent technology. Local governments are aggressively accelerating the deployment of 5G communication base stations and C-V2X roadside equipment, propelling the upgrading of intelligent roads, encouraging and guiding the assembly of vehicular wireless communication terminals, and fueling the coordinated development of intelligence and connection.

The development of 5G in the automotive industry requires coordination and cooperation among governments, operators, automakers, Tier1 suppliers, and Internet companies. At present, all parties (mainly industry alliances, operators, and OEMs) are pushing 5G automotive testing, demonstration and application projects to prepare for the large-scale application of 5G in the automotive industry.

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Industry	alliances
promote	automotive 5G
demonst	ration projects

Industry organizations/alliances that promote automotive 5G projects include: 5G Automotive Association (5GAA), 5G Infrastructure Public Private Partnership (5G PPP), and China 5G Autonomous Driving Alliance (5GADA), etc.

	Established		5G Projects
5GAA	September	Automobile: Audi, BMW, Daimler, Ford,	5G-V2X Project: 5GAA members Telefónica, Ericsson, Ficosa and
	2016	Geely, BAIC, SAIC, Volkswagen, Volvo,	Seat show 5G connected car use cases supported by C-V2X direct
		Honda, Hyundai, Nissan, Jaguar, Land	communication for safer driving in a city.
		Rover, etc.	
			5G Edge Computing Project: Vodafone and Continental have
		Telecommunications: Ericsson,	joined forces. They are already working on application scenarios at
		Huawei, Intel, Nokia, Qualcomm, ZTE,	Vodafone's 5G Mobility Lab. A digital shield for pedestrians and a
		Samsung, etc.	traffic jam warning system are two of the focal projects. They will
			be implemented with 5G, cellular vehicle-to-everything (cellular
			V2X) and mobile edge computing.
			5G Smart Transportation Demonstration Project: In
			September <mark>201</mark> 9, Shangh <mark>ai Jiadin</mark> g teamed up with SAIC, Huawei,
			China Mo <mark>bile,</mark> etc. to launch a 5G smart transportation
			demonstrat <mark>ion</mark> project of <mark>5GAA.</mark>
5GPPP	February	Ericsson, Bosch, Automotive Technology	5G PPP's co <mark>llab</mark> orative re <mark>sear</mark> ch in three phases
	2013	Centre of Galicia, Chalmers University of	PHASE 1: Basic research on 5G network communications.
		Technology, Huawei, King's College	PHASE 2: These technologies are used for the digitization and
		London, Marben, Nokia, Orange, PSA,	integration of European vertical industries. The "5GCAR project"
		Sequans, Viscoda, Volvo, etc.	led by Erics <mark>son</mark> has been <mark>selected</mark> as part of phase 2 of the 5G PPP.
			PHASE 3: It is divided into three parts, one of which is the
			"automobile project" including cross-border corridor projects such
	\A/\A/	W rocorr	as 5G CroCo, 5G-CARMEN, 5G-MOBIX, etc.
5GADA	September	FAW, GAC, Dongfeng, Geely, Changan,	Beijing Fangshan Open Road Test Site: There are 11 open
	2018	BYD, BAIC, Chery, SAIC, Tsinghua	roads with a total length of 18 kilometers. Tests for 5G network
		University, China Automotive	required by 5G autonomous driving, 5G edge computing platform,
		Engineering Research Institute Co., Ltd.	5G-V2X capability, and 5G advanced positioning capability.
		(CAERI), Huabei Expressway, Datang	
		Telecom, Huawei, China Academy of	Xiangyang Closed Road Test Field: The base enables smart
		Information and Communications	operations as per actual production in the mining area and 5G
		Technology, Nokia, etc.	remote driving control tests.

5G Automotive Associations and the 5G Projects They Promote

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Operators take the lead in promoting 5G infrastructure construction

5G operators are vigorously implementing 5G Telematics and autonomous driving. For example, China Mobile is enforcing the 5G+ plan to further prompt the innovative application of 5G in the automotive field. In order to accelerate the development of 5G autonomous driving business, China Mobile has given great attention and support in terms of operating system, R&D and construction efforts. ecological cohesion. etc. China Mobile has formulated a "3+1+N" strategy, namely three advanced networks, a core platform and multiple application scenarios, so as to empower the quick realization of autonomous driving in China and maintain a leading position in the world.

	5G Base 5G Projects		Participators		
		-	-		
5G	Suzhou HSR New Town 5G + Smart	5G + Beidou high-precision	China Mobile, QCraft, Xiandao (Suzhou		
	Intersection Project in Suzhou 5G				
Driving Pilot	Internet of Vehicles (IOV) City-leve	new infrastructure CVIS project;	Development Co., Ltd., Beidou etc.		
Zone	Verification and Application Base	regularly operated 5G			
		autonomous bus project			
	National Intelligent and Connected	5G autonomous driving and	China Mobile, Dongfeng Motor, etc.		
	Vehicle Quality Supervision and	remote driving			
	Inspection Center (Xiangyang)				
	IOV Base in Wuxi, Jiangsu	5G-V2X	People's Government of Binhu District		
			Wuxi City, Traffic Management Researc		
			Institute of the Ministry of Public Security		
			China Mobile Wuxi Branch, etc.		
	High-end Manufacturing Base in	5G network, 5G edge computing	CM Intelligent Mobility, People'		
	Fangshan District, Beijing	platform, 5G-V2X ca <mark>pabi</mark> lity, 5G	Go <mark>vernmen</mark> t of Fangshan District, Beijin		
		high-precision positioning	Mu <mark>nici</mark> pality, China Mobile, Changa		
		capability	Au <mark>tom</mark> obile, Uisee Technology, AutoBrain		
			BW <mark>I, B</mark> eijing HyperStrong Technology, etc.		
5G Smart	5G Autonomous Driving Base in	5G + Beidou-based a <mark>uto</mark> nomous	Ch <mark>ina Mobil</mark> e, Dongfeng Motor, FAW, Baidu		
Park	Wuhan Economic & Technological	driving, L4 autonom <mark>ous</mark> vehicle	Ha <mark>ylion</mark> Technologies, DeepBlue		
	Development Zone	(RoboTaxi), autonom <mark>ous m</mark> inibus	Tec <mark>hnology,</mark> AutoX, etc.		
		(Sharing-VAN), intelligent			
		autonomous street sweeper, etc.			
5G Smart Port	China Merchants Port	5G + yard crane remote control,	China Mobile, Huawei, Beidou, Ping An		
	////0000	5G + autonomous driving	China Merchants Holdings (International		
			Co., Ltd., etc.		
	Intelligent Container Truck	5G + autonomous heavy truck	China Mobile (Shanghai) ICT Co., Ltd.		
	Platooning Demonstration Base at	commercialization	SAIC, Shanghai International Port (Group		
	East Sea Bridge in Yangshan Port		Co., Ltd. (SIPG), China Mobile Shangha		
			Company, etc.		
	Port of Ningbo	5G + remote control, 5G +	Zhejiang Provincial Seaport Investment 8		
		autonomous container truck	Operation Group, China Mobile Zhejiang		
			Company, Shanghai Zhenhua Heavy		
			Industries Co., Ltd. (ZPMC), Huawei, etc.		
	Port of Xiamen	5G + autonomous container	Xiamen Ocean Gate Container Termina		
		truck, port machinery remote	Co., Ltd., COSCO SHIPPING Technology		
		control, smart tally, etc.	Co., Ltd., China Mobile Xiamen Branch, etc		
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5G Projects of China Mobile

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OEMs scramble to launch 5G models

introduction With the of commercial and automotive 5G chips, automotive OEMs have launched 5G models successively. In June 2020, BYD launched Han equipped with Huawei's 5G technology. In November 2020, GAC NE unveiled AION V equipped with GAC Aion 5G V2X vehicular intelligent communication system and Huawei Balong 5000 5G communication chip. In November 2020, SAIC R started the pre-sale of the 5G smart electric SUV MARVEL R.

As OEMs scramble to launch 5G models, it is estimated that more than 50% of new cars will be equipped with 5G vehicular terminals.

Mass-produced and Planned 5G Vehicle Models in China

Model	Chip	Features	Start of
			Production
BYD Han	Huawei MH5000	Smartphone NFC key and DiLink 3.0 IVI system enable	2020
		distributed non-inductive connection between smartphone	
		and car; smartphone and car to share resources virtually;	
		APP and service to s <mark>hare</mark> multiple devices.	
AION V	Huawei MH5000	5G + V2X intelligen <mark>t ter</mark> minals, t <mark>he integ</mark> ration of 5G V2X	2020
		technology and intel <mark>lige</mark> nt transp <mark>orta</mark> tion network	
SAIC MARVEL R	Huawei	Fusion of 5G comm <mark>unic</mark> ation cap <mark>abil</mark> ity and availability of	2020
	MH5000+Mobileye Eye Q4	SAIC's latest autom <mark>ated</mark> driving t <mark>echnolo</mark> gy will enable L3	
		automated driving.	
BAIC ARCFOX aT	Huawei MH5000	Availability of Hua <mark>wei</mark> MH5000 <mark>5G c</mark> hip-based T-BOX	2021
		enables L2.5 assisted driving.	
Weltmeister W6	3rd Generation Qualcomm	Availability of 7nm automotive chip, 5G baseband, over 22	2021
VV VV	Snapdragon + 5G	sensors, and cloud-based AVP, enables L4 automated	
	Baseband Chip	driving.	
WEY Mocha	Automotive Qualcomm	Vehicle 5G + V2X, automotive LiDAR, AR-HUD, L3	2021
	8155 chip + 5G-V2X	automated driving, etc.	
NIO ET7	3rd Generation Qualcomm	Use 3rd generation Qualcomm Snapdragon™ automotive	2022
	Snapdragon + 5G Chip	digital cockpit chip and Snapdragon™ automotive 5G chip.	
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5G in 8 typical automotive application scenarios

The report summarizes and analyzes 5G technology and application in 8 scenarios: test area/demonstration area, smart expressways, platooning, valet parking, remote control and remote driving, low-speed autonomous driving in the park, autonomous heavy trucks in the park, and smart buses. This article briefly introduces two of these scenarios.

Application of 5G on smart expressway

Compared with the complex road conditions in urban areas, the traffic environment of expressways is relatively closed and simple, symbolizing one of the typical scenarios where 5G intelligent connectivity technology and solutions are applied first. Smart expressways will gradually establish a complete infrastructure monitoring system and an intelligent road network operation perception system through 5G intelligent networking, Beidou, Internet of Things, cloud computing, big data and other technologies. The construction of smart expressways supporting 5G has become a key part of the new infrastructure.

Application of 5G in low-speed autonomous driving in the park

For example, an automotive smart antenna and a 5G remote driving smart gateway enable a park sweeper to connect 5G network, thereby realizing fully automatic autonomous driving, multi-sensor collaborative cloud management, omnidirectional video surveillance, remote takeover, intelligent scheduling, and one-click summon and other functions.

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Application of 5G-connected Park Sweeper

Project Name	5G Configuration
The test section of Furon	The self-driving sweeper turns on automatic cleaning mode at a speed of 20km per
Lake in Xuchang Urban-	hour, and successfully passes 14 5G self-driving scenario tests such as obstacle
Rural Integration	identification, pedestrian and non-motor vehicle avoidance;
Demo <mark>nstratio</mark> n Zone	Construction of 5G network environment syste <mark>m inclu</mark> des 5G base station, roadside
	sensor system and edge computin <mark>g s</mark> ystem.
Teapa <mark>rk iVa</mark> lley in Nan'ar	The sweeper integrates LiDAR, ca <mark>me</mark> ra, and <mark>ultr</mark> asonic radar, which enables fully
Distric <mark>t, Chon</mark> gqing	automatic operation and fulfill cle <mark>ani</mark> ng, sprin <mark>kling g</mark> arbage collection, etc on the
	road. At the same time, it collect <mark>s da</mark> ta throu <mark>gh 5G h</mark> igh bandwidth and transmits
	them to the background in real tim <mark>e,</mark> thus rea <mark>lizing r</mark> emote monitoring.
5G+ Unmanned driving	The intelligent driving sweeper developed by Hunan New Encher New Energy
sweeper in Tiantai Road	Vehicle Co., Ltd. integrates multi-functions such as cleaning, washing and
Tianyuan District, Zhuzhou	disinfection, and has achieved unmanned driving and can run under 5G network.
	Through 5G remote control platform, one person can monitor 10-15 such sweepers
	operations at the same time in the operation room. Tiantai Road has achieved 5G
	network coverage, and 5G communication with fast transmission speed and low
	delay has strongly promoted the application of intelligent driving.

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