

OEMs Rush into Mass Production of 5G Models Whose Sales May Reach 3.68 Million Units in 2025

By the end of 2021, China had built and opened in excess of 1.39 million 5G base stations, established over 2,300 virtual private networks and hybrid private networks, and seen over 1,800 5G+ industrial Internet projects under construction. Viewed from 5G coverage, all prefecture-level cities, at least 97% of counties, and 40% of townships in China have already been covered by 5G, to the amount of 450 million 5G terminal users in China, taking a lion's share above 80% of the world's total.



Integration of Vehicle and 5G



The accelerated construction of 5G networks will set the stage for deeper commercialization of 5G vehicles. To date, China's Internet of Vehicles (IoV) projects based on 5G communications have spread from pilot areas to commercialized scenarios, calling for the synergy of automakers, parts suppliers and internet firms as well as 5G ecosystem partners for the sake of cross-platform interconnection and interoperability.



5G Has Become the Sales Highlight of Many Brand Models

Chinese OEMs

Many Chinese automakers are aggressively exploring the use of 5G technology in autonomous driving and intelligent connectivity, and they have launched 5G production models as a main selling point:

In February 2021, **SAIC R** officially launched MARVEL R, the world's first "5G smart electric SUV" with the SRRC certificate and being the first model that passed the automotive-grade 5G /C-V2X terminal certification;

NIO ET7, which will be mass-produced in 2022, will use the 3rd-Gen Qualcomm Snapdragon? automotive digital cockpit platform and Qualcomm Snapdragon? 5G automotive platform. It is possessed of 5G, C-V2X, Bluetooth 5.0, WiFi-6, UWB, among others;

ARCFOX α -T, the first production SUV of BAIC BJEV ARCFOX, officially called "the 5G smart electric vehicle", is equipped with the MH5000 T-BOX based on Huawei's next-generation 5G chips;

In August 2021, **BYD Han** unveiled a 5G version, adding a 5G optional package (including Dynaudio loudspeakers and 5G chips) to the 2021 BYD Han EV flagship version;

Great Wall Motor's 5G automotive wireless terminal has been granted the "Radio Transmission Equipment Type Approval Certificate" by the Ministry of Industry and Information Technology of the People's Republic of China.

Foreign OEMs

Among foreign OEMs, BMW, Ford, and Audi also quicken the pace of 5G vehicle production:

BMW's flagship battery-electric SUV, BMW iX, has debuted with 5G connectivity technology and Gigabit Ethernet for the first time;

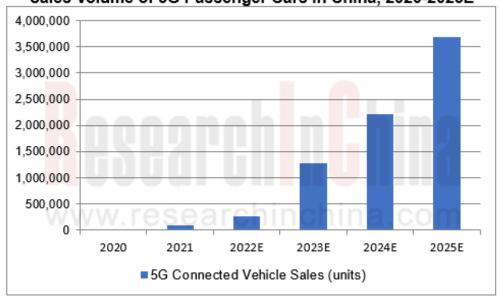
The **Ford** C-V2X System has been officially spawned and applied since January 1, 2021. Ford has therefrom become the first automaker in China that accomplished the mass production of C-V2X technology which is now available in Wuxi, Changsha and Guangzhou. In the next step, Ford will ramp up production of models using 5G C-V2X technology;

For **Audi**, the upcoming Audi A7 L and A6 L made in China will be equipped with 5G communication modules that support C-V2X.

5G Technology Application of OEMs

According to the production and assembly data of 5G passenger cars in China, the penetration rate of 5G vehicles constituted less than 0.4% of connected vehicles in 2021. As 5G feature gains popularity in medium and high-end passenger cars, China's 5G passenger car sales will reach 3.684 million units by 2025, with the penetration above 15% then.

Sales Volume of 5G Passenger Cars in China, 2020-2025E



Source: ResearchInChina

5G Technology Application of OEMs

	5G Intelligent	5G Communication Module	5G BOX	5G	5G RTK	5G Antenna	5G AVP
	Cockpit			C-V2X			
NIO	~	1	1	✓			
Xpeng	0	0	0		1		0
Li Auto	0	0	0				
WM Motor	~	~	~	~			~
Voyah	~	4	~				
Hozon Neta	0	0	0				
Human Horizons	~	1	~	~	0		
Leapmotor	0	0					
BYD	~	1	~	0			
SAIC	~	✓	~	1			
BAIC	1	1	1	0			
GAC	4	1	1	4	0		1
FAW Hongqi	4	1	~	~	1	1	
Great Wall	~	1	4	✓	1		~
Changan	0	0	0	0			
Chery	0	0	0	0			
Geely	V - 0	0	0	0		d. C	0
ZEEKR	4	√	~				
Tesla		0	0				
BMW	~	√	~				
Mercedes-Benz		0	0				
vw		0	0	0			
Audi	1	1	~	✓ /			
Toyota		0	0				
GM		0	0	0			
Ford		0	0	4			
Volvo		0	0	0			

Note: √-mass-produced, O-planned Source: ResearchInChina

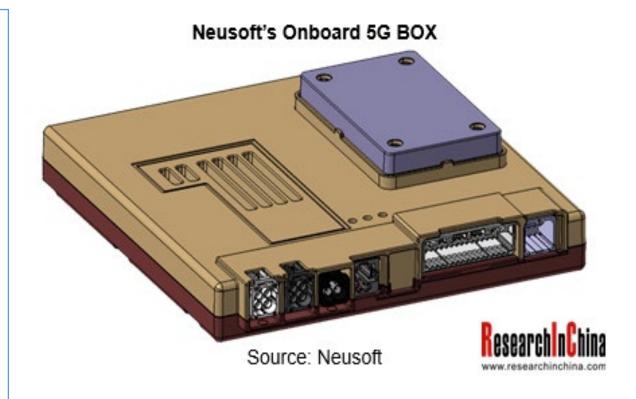


Localization of 5G Auto Parts – 5G Box

While 5G vehicles are in full swing, there have emerged more than fifty 5G terminal and technical solution providers in the Chinese intelligent vehicle industry chain. Here are a few typical 5G automotive product/solution suppliers:

As the first enterprise certified by A-SPICE CL3 and 5G SRRC, Neusoft has cooperated with over 20 world-renowned automakers in the field of intelligent communication for 100+ models, with the annual capacity up to one million units.

By far, Neusoft has spawned 5G/V2X BOX on a large scale, which will be installed in dozens of mid-to-highend models from well-known OEMs such as Geely and Great Wall in the near future. The Neusoft 5G BOX carried by ZEEKR 001 integrates functions such as Gigabit Ethernet, WiFi 6 and BLE 5.0 to enable precise time synchronization, high-precision satellite positioning, and multi-channel data transmission, and to offer a data access channel for intelligent driving assistance system, coupled with the high speed, high bandwidth and low latency of 5G.





Localization of 5G Auto Parts – 5G Communication Modules



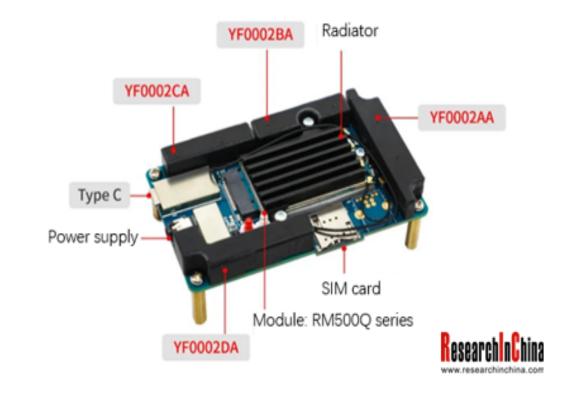
AN958-AE, the 5G automotive-grade module of Fibocom, has been certified by CCC (China Compulsory Product Certificate), SRRC (Radio Type Approval), and NAL (Network Access License for Telecom Equipment), indicating that AN958-AE meets the standard design goals in RF performance and data performance and fully suits the complex network environment of Chinese operators. It is qualified for mass production and shipment, so that Fibocom can accelerate the upgrade of automotive OEM module business from 4G to 5G.

AN958 is independently developed and designed by Fibocom Auto, Fibocom's wholly-owned subsidiary engaged in automotive OEM module business. It is a 5G NR Sub-6 automotive communication module targeting the global market. Based on Qualcomm's SA515M 5G automotive platform, AN958 supports 5G SA and NSA.

Localization of 5G Auto Parts – 5G Antennas

Quectel believes that the integrated design of wireless modules and antennas by a supplier that can provide application solutions at the same time will be the mainstream trend of terminal antenna design in the 5G era. Quectel's "wireless module + antenna" integrated design solution not only makes full use of its technical superiority and experience in modules, but also exerts its full-custom antenna design, integration and manufacturing capabilities.

Quectel's " 5G Module + Antenna" Integrated Design Solution





Typical Scenarios where the '5G + Vehicle' Fusion Prevails

5G technology has been given full play in excess of 10 scenarios such as test areas/demonstration areas, smart expressways, platooning, automated parking, remote control and remote chauffeur, low-speed autonomous driving in parks, special self-driving, and intelligent public transportation.

Typical Applicati	on Scenarios and Cases of 5G Integrated with Vehicle					
Scenarios	Projects					
5G test	Beijing Fangshan 5G Autonomous Driving Demonstration Area					
zones/demonstration	Xiongan Citizen Service Center (5G remote autonomous driving tests)					
zones	Xiamen 5G Application Innovation Center					
	Nanjing Airport Expressway					
5G smart expressways	Beijing-Chongli Expressway					
expressways	Hefei Xinqiao International Airport					
5G platooning	Intelligent Container Truck Platooning Demonstration Project of Donghai Bridge Yangshan Port					
36 platooning	Changsha 5G Autonomous Sanitation Robot Platooning					
	5G Sanitation Robot Cluster Platooning					
5G automated	Bosch 5G Automated Valet Parking System Solution					
parking	HiPhiX 5G+L4 Fully Automated Valet Parking					
parking	WM 5G + L4 Autonomous Driving + AVP					
5G remote control	Demonstration of 5G Network Remotely Controlling Port Machinery & Equipment					
sG remote control	5G Remote Driving Demonstration of China Mobile					
	Chongqing 5G Remote Driving Project of China Telecom					
	The test road section by the Furong Lake in the urban-rural integration					
	demonstration area of Xuchang City					
5G park sweepers	5G Industrial Application Demonstration Base of Tusincere Science					
	and Technology City, Jianggan District, Hangzhou City 5G+ autonomous sweepers on Tiantai Road, Tianyuan District,					
	Zhuzhou					
	5G Autonomous Sightseeing Vehicles at Tang Paradise					
	Skywell "Blue Whale 5G+ Autonomous Tourist Sightseeing Vehicle"					
5G sig <mark>htsee</mark> ing cars	"5G + Autonomous Driving" Project of Hainan Yanoda Rainforest					
	Cultural Tourism Zone					
	5G Minecarts of Inner Mongolia Zhaha Naoer Open-pit Coal Mine					
5G mining trucks	5G Autonomous Mining Trucks of Baotou Bayan Obo Mining District					
oo iiiiiiig trucks	5G Autonomous Mining Trucks of Magang Nanshan Mine - 5G-based					
\A/\A/\A/\	Autonomous Mining Truck Project of Heshangqiao Mine					
00 00 00 . 1	"Smart Port 2.0" of Xiamen Port					
5G port heavy trucks	5G+L4 Intelligent Heavy Trucks of SAIC					
o permany manne	5G Autonomous Smart Container Truck Demonstration Project of Tianjin Port					
	Baidu - robotaxi					
50 5-1-4 0	WeRide - robotaxi					
5G Robotaxi & robobus	UISEE - robotaxi					
Tobobus	Yutong Bus - robobus					
	DeepBlue Technology - robobus					
	Source: ResearchInChina					



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