
GLOSSARY OF TECHNICAL TERMS

This glossary of technical terms contains explanations of certain technical terms used in this Document in connection with us and our business. As such, some of these terms and their meanings may not correspond to standard industry definitions or usage of these terms and may not be comparable to similar terms adopted by other companies.

"ACC"	adaptive cruise control
"ADAS"	advanced driver assistance systems
"ADDW"	advanced driver distraction warning
"AEB"	automatic emergency braking
"AI"	artificial intelligence
"AMP"	automatic mixed precision
"APA"	automated parking assist
"AR-HUD"	augmented-reality head-up display
"ASPICE"	automotive system process improvement and capability determination
"AVP"	automated valet parking
"BEV"	bird's eye view
"CAGR"	compound annual growth rate
"CIL"	contrastive imitation learning
"CFAP"	cross-floor autonomous parking
"CNCAP"	the China New Car Assessment Program
"CPU-NPU"	central processing unit — neural processing unit
"CVPR"	computer vision and pattern recognition
"DDAW"	driver drowsiness and attention warning systems
"DMS"	driver monitoring systems
"ELK"	emergency lane keeping
"ENCAP"	the European New Car Assessment Programme

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"E2E"	end-to-end
"EPS"	electric power steering
"EU GSR"	General Safety Regulation (EU)
"FSD"	full self-driving
"GazeDPTR"	dual-stream gaze pyramid transformer
"GB"	guobiao, means official, mandatory standards set by the PRC government
"GNSS"	global navigation satellite system
"GPU"	graphics processing units
"highway NOA"	navigate on autopilot on highways
"HIL"	hardware-in-the-loop
"HLB"	high low beam
"HMI"	human-machine interface
"HUD"	head-up display
"IC"	intelligent collision avoidance
"ICE"	internal combustion engine
"IFC"	integrated front camera
"IoT"	Internet of Things, a network of devices, vehicles, appliances and other physical objects that are embedded with sensors, software and network connectivity
"IoV"	Internet of vehicles, a network of vehicles equipped with sensors, software, and the technologies that mediate between these with the aim of connecting and exchanging data over the Internet according to agreed standards
"ISO"	the International Organization for Standardization
"i-VISTA"	Intelligent Vehicle Integration Systems Test Area, a public service platform for intelligent vehicle and intelligent transportation application demo project and product engineering jointly built by MIIT and Chongqing Municipality

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"LCC"	lane centering control
"LDW"	lane departure warning
"LKA"	lane keeping assist
"LSS"	lane support systems
"LiDAR"	light detection and ranging, a method for determining ranges by targeting an object or a surface with a laser and measuring the time for the reflected light to return to the receiver
"L2/L2+/L4"	means different levels of driving automation as defined by the Society of Automotive Engineers ("SAE"). According to the SAE classification, driving automation ranges from Level 0 ("L0") to Level 5 ("L5"). At Level 2 ("L2"), the system can control both steering and acceleration or braking simultaneously, but the driver must remain fully responsible and attentive. "L2+" refers to enhanced Level 2 systems with more advanced assisted-driving functions while still requiring active driver supervision. Level 4 ("L4") represents a high level of automation under which the vehicle can operate without human intervention within defined conditions, freeing the driver from performing driving tasks
"Mass Production"	refers to the large-scale, standardized delivery and deployment of L2-L2+ and L4 driving solutions
"MPA"	memory parking assist
"NEV"	new energy vehicles
"NOA"	navigate on autopilot
"OD"	objection detection
"OEM"	original equipment manufacturer
"OMS"	occupant monitoring systems
"OTA"	over-the-air
"PDAQ"	perception data acquisition
"PDC"	parking distance control
"PSD"	parking space detection
"RAEB"	rear automatic emergency braking

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"RL"	reinforcement learning
"RP"	remote parking assist
"R&D"	research and development
"SIL"	software-in-the-loop
"SoC"	system-on-chip, programmable integrated circuits that integrates CPU, memory interfaces, on-chip input/output devices, input/output interfaces, and secondary storage interfaces, often alongside other components such as radio modems and a graphics processing unit, all on a single substrate or microchip
"SoP"	start of production
"TBA"	tracking back assist
"TFL"	traffic light recognition
"Tier-1 Supplier(s)"	automotive system integrator(s), company(ies) that supply(ies) assembled components or systems directly to OEMs; Tier-1 Suppliers need to work closely with OEMs during the design and development stages of vehicles, ensuring the integration of their components into the final product
"Tier-2 Supplier(s)"	company(ies) that supply(ies) parts or materials directly to Tier-1 Suppliers, such as raw materials, smaller subcomponents that are then incorporated into the components supplied by Tier-1 Suppliers
"TSR"	traffic sign recognition
"urban NOA"	navigate on autopilot in urban areas
"VLM/VLA"	vision-language-model/vision-language-action model
"V-model"	a V-shape software development framework with one arm focusing on system design and the other arm focusing on verification and validation
"V2X"	vehicle-to-everything, describes wireless communication between a vehicle and any entity that may affect, or may be affected by, the vehicle