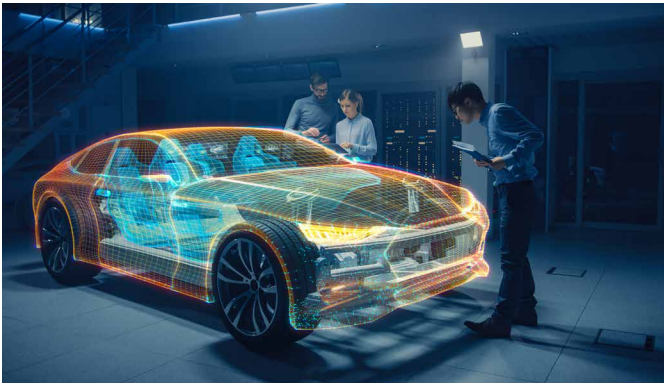




SECURE CONNECTIONS
FOR A SMARTER WORLD

NXP AUTOMOTIVE DEVELOPMENT PLATFORMS

Engineered for prototyping, evaluation, and development of Body & Chassis, Powertrain, in-vehicle Networking, Advanced Driver Assistance Systems (ADAS), Functional Safety and automotive security applications.



Affordable deployment of safe and secure driving solutions across entire fleet of vehicles

The NXP automotive development platforms offer a rich feature set includes easy-to-use mass storage device mode flash programmer, virtual serial port, classic programming or run-control capabilities to accelerate your next breakthrough design:

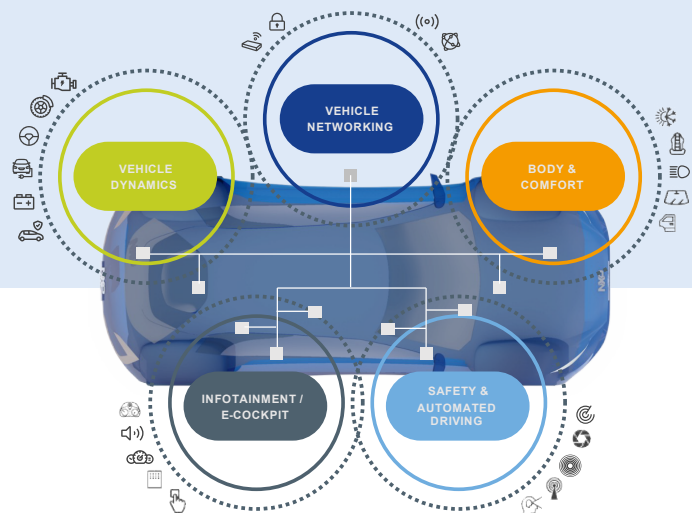
- Broad portfolio of hardware tools for prototyping, evaluation, and development.
- Diverse architectures:
 - Arm® Cortex®- M0+/M4/M4F/M7/M33, Arm Cortex A72/A53, Arm Cortex R52
 - Power Architecture® e200z7 and e200z4
 - S12 Magniv® and S12X
- Arduino® pin-compatible and expansible hardware sockets, offering secure communication and integrated OpenSDA or OpenBDM
- Supported by extended software tools from NXP (S32 Debugger, S32 Design Studio IDE or CodeWarror®) and global partners (Keil®, IAR Systems, SEGGER, GreenHills, P&E Engineering, Windriver, QNX and more)
- Offering dedicated online support communities for most devices and software tools, also comprehensive documentation (application notes, user and quick start guides, example codes, and more)

VEHICLE INFRASTRUCTURE PLATFORM

*Focused on safe control and driver comfort
Auto quality: Robust, safe, secure and reliable
Foundational across whole range of vehicles*

OPTIONAL AND VEHICLE DEPENDENT

*Regularly upgraded
Optional features across a vehicle line
Fashion and time sensitive*



NXP AUTOMOTIVE DEVELOPMENT PLATFORMS BY APPLICATION

	S32G	S32K	S32R	S32S	S32V	MPC57xx	S12 MagniV®
Electrification		NTBMS-FSNXP RD-K344BMU RDDRONE-BMS772		GreenBox*		EV-INVERTERHDBT EV-INVERTER RDVCU5775EVM MPC5775B- BatterySystem MPC5775B/E-EVB MPC5775BE-EVB MPC5777C-DEVB	
Connected Vehicle	GoldBox* S32G-VNP- RDB2	S32K148EVB-KIT UCANS32K1SIC				MPC-LS-VNP-RDB MPC-LS-VNP-EVB MPC5748G-GW DEVKIT-MPC5748G MPC5748G-LCEVB MPC574XG-MB	
Motor Control		MCSPT1AK344 MCSPT1AK144 MCSXTE2BK142 MCSPT1AK116 DEVKIT-MOTORGD KEA128BLDCRD				MCSPTR2A5775E MTRCKTSPS5744P	S12ZVML-MINIBRD S12ZVML-MINIKIT S12ZVM-EFP S12ZVM-EWP MTRCKTSBNZVM128 MTRCKTSPNZVM128 MCSXSR1CS12ZVM DEVKIT-S12VR64 DEVKIT-S12VRP S12ZVMC256EVB S12ZVMAEVB S12ZVMBEVB S12ZVMEVB S12ZVM32EVB S12VR32EVB S12VR64EVB3 S12ZVMC12EVB CAN S12ZVML12EVB LIN MTRCKTSBNG128
General Purpose		S32K3X4EVB-Q172 S32K3X4EVB-Q257 S32K116EVB2Q048 S32K118EVB2Q048 S32K142EVB-Q100 S32K144EVB-Q100 S32K14WEVB-Q064 S32K146EVB-Q144 S32K148EVB-Q176 FRDM-KEAZ128Q80 FRDM-KEAZ64Q64 FRDM-KEAZN32Q64					DEVKIT-S12ZVC DEVKIT-S12ZVL DEVKIT-ZVL128 VLG-MC9S12ZVC DEVKIT-S12XE DEVKIT-S12G128
Engine Management		FRDMPKPT2000EVM		GreenBox*		MPC5777MEVB MPC5777CEVB MPC5746REVB MPC5777C-DEVB MPC5775E-EVB	
Interior Lighting		S32K-ISELED KEA128LEDLIGHTRD					S12ZVL32-LED KIT12XS6EVM
Functional Safety	GoldBox*	S32K3X4EVB-Q172 S32K3X4EVB-Q257		GreenBox*		DEVKIT-MPC5744P miriac™ EK-5744P MPC574xPEVB KITMPC5744DBEVM	
Drones		UCANS32K146-01 KIT-UCANS32K146 UCANS32K1SIC RDDRONE-BMS772					
High-performance Compute	BlueBox*						
Radar & Vision					SBC-S32V234 S32V234EVB S32V MIPI Cameras and De-Serializer		

NXP AUTOMOTIVE DEVELOPMENT PLATFORMS BY PRODUCT FAMILY

PRODUCT FAMILY	ARCHITECTURE	REFERENCE DESIGNS	BOARDS
S32G Vehicle Network Processors	64-bit quad Arm® Cortex®-A53 cores and triple Cortex-M7 lockstep cores LLCE, PFE, HSE hardware acceleration offloads general computing	GoldBox* BlueBox*	S32G-VNP-RDB2
S32K General Purpose MCUs	32-bit Arm® Cortex®-M4F and Cortex-M0+	RD-K344BMU S32K-ISELED NTBMS-FSNXP S32K148EVB-KIT RDRDRONE-BMS772 UCANS32K1SIC MCSPT1AK344 MCSPT1AK144 MCSXTE2BK142 MCSPT1AK116 DEVKIT-MOTORGD KEA128LEDLIGHTRD KEA128BLDCRD	S32K148EVB-Q176 S32K3X4EVB-Q172 S32K3X4EVB-Q257 S32K116EVB2Q048 S32K118EVB2Q048 S32K142EVB-Q100 S32K144EVB-Q100 S32K14WEVB-Q064 S32K146EVB-Q144 UCANS32K146-01 KIT-UCANS32K146 FRDMPKPT2000EVM FRDM-KEAZ128Q80 FRDM-KEAZ64Q64 FRDM-KEAZN32Q64
S32S Safe Vehicle Dynamics MCUs	32-bit Arm®-R52	GreenBox*	
S32V Vision Processors	64-bit Arm® Cortex-A53 APEX, ISP, GPU		SBC-S32V234 S32V234EVB S32V MIPI Cameras and De-Serializer
MPC57xx ultra-reliable MCUs	32-bit Power Architecture® MPC57xx eTPU, GTM advanced timing module	EV-INVERTERHDBT EV-INVERTER RDVCU5775EVM MPC-LS-VNP-RDB DEVKIT-MOTORGD DEVKIT-COMM	MPC5775BBatterySystem MPC5775BE-EVB MPC5775B/E-EVB MCSPTR2A5775E MPC5777C-DEVB MPC5777MEVB MPC5777CEVB MPC5746REVB DEVKIT-MPC5744P DEVKIT-MPC5748G miriac™ EK-5744P MTRCKTSPS5744P MPC574xPEVB KITMPC5744DBEVM MPC-LS-VNP-EVB MPC5748G-GW MPC5748G-LCEVB MPC574XG-MB
S12 and MagniV®mixed-signal MCUs	16-bit S12 & S12Z, high voltage analog	S12ZVML-MINIBRD S12ZVML-MINIKIT S12ZVM-EFP S12ZVM-EWP S12ZVL32-LED MTRCKTSBNZVM128 MTRCKTSPNZVM128 MTRCKTSBNG128 MCSXSR1CS12ZVM DEVKIT-COMM	DEVKIT-S12ZVC DEVKIT-S12ZVL DEVKIT-ZVL128 DEVKIT-S12VR64 DEVKIT-S12VRP S12ZVMC256EVB S12ZVMAEVB S12ZVMBEVB S12ZVMEVB S12ZVM32EVB S12VR32EVB S12VR64EVB3 VLG-MC9S12ZVC S12ZVMC12EVB CAN S12ZVML12EVB LIN KIT12XS6EVM DEVKIT-S12XE DEVKIT-S12G128

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