GoldVIP provides a reference vehicle integration platform that accelerates S32G hardware evaluation, software development and rapid prototyping efforts.

It integrates NXP standard and reference software, along with open source and third-party software to provide an evaluation, development and rapid prototyping platform.

It includes a graphical user interface, real-time use cases for evaluation, real-time resource monitoring and secure cloud connectivity with partner integration that supports OTA updates, AUTOSAR™ environments, cloud services and intrusion detection and prevention (IDPS) security capabilities.
### GoldVIP Block Diagram

**Graphical User Interface and Example Applications**

- **Vehicle Services**
- **Argus CAN IDPS**
- **CAN Gateway**
- **Ethernet Gateway**
- **Linux BSP (Services, Cloud)**
- **Linux BSP (In-vehicle Networking, Security)**
- **Xen Project® Type-1 Hypervisor**
- **Real-Time Drivers (RTD)**
- **Packet Forwarding Engine Firmware**
- **Hardware Security Engine Firmware**
- **Low Latency Communication Engine Firmware**

**NXP System-on-Chip: S32G / Hardware Platforms: S32G RDB / GoldBox**

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### Automotive General Block Diagram

**SERVICES / APPLICATION SOFTWARE**

**MIDDLEWARE**

**OS / DRIVERS / SAFETY**

**HYPERVERSOR (if available)**

**ARM CORTEX CORE(S)**

**FIRMWARE / HW ACCELERATORS**

**NXP TOOLS & IDE**
View additional information for S32G Vehicle Integration Platform (GoldVIP).

Note: The information on this document is subject to change without notice.