Amazon Web Services (AWS) Libraries for S32K3 automotive general-purpose MCUs addresses the connectivity and security challenges that automakers face when building connected automotive applications.

The AWS Libraries for S32K3 include NXP's reference software and the FreeRTOS® libraries.

Leveraging AWS IoT Core, S32K3 establishes communication with AWS cloud, transmitting vehicle data for processing and analysis and facilitating actions on data through AWS Cloud Services. S32K3 not only enables cloud connectivity, but also has the capability for over-the-air (OTA) updates unlocking the value of vehicle data and leveraging edge-to-cloud services.

User Guide
AWS Libraries Architecture Block Diagram

- Device Shadow
- Device Defender
- OTA Agent
- coreMQTT Agent
- coreJSON
- Backoff algorithm
- corePKCS11
- Flash file system
- OTA PAL
- PKCS11
- Network Transport

FreeRTOS Core Libraries

S32DS Demo Applications

S32 Design Studio (S32DS) + S32 Config Tool (S32CT)

S32K3 Software Ecosystem Using AWS Block Diagram

- Applications
- AWS Libraries for S32K3
- Mbed TLS
- TCP/IP
- NXP Real-Time Drivers
- S32 Design Studio (S32DS) + S32 Config Tool (S32CT)

FreeRTOS Kernel

Tools
Middleware
OS
Applications
View additional information for AWS Libraries for S32K3.

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