AWS Libraries for S32K3

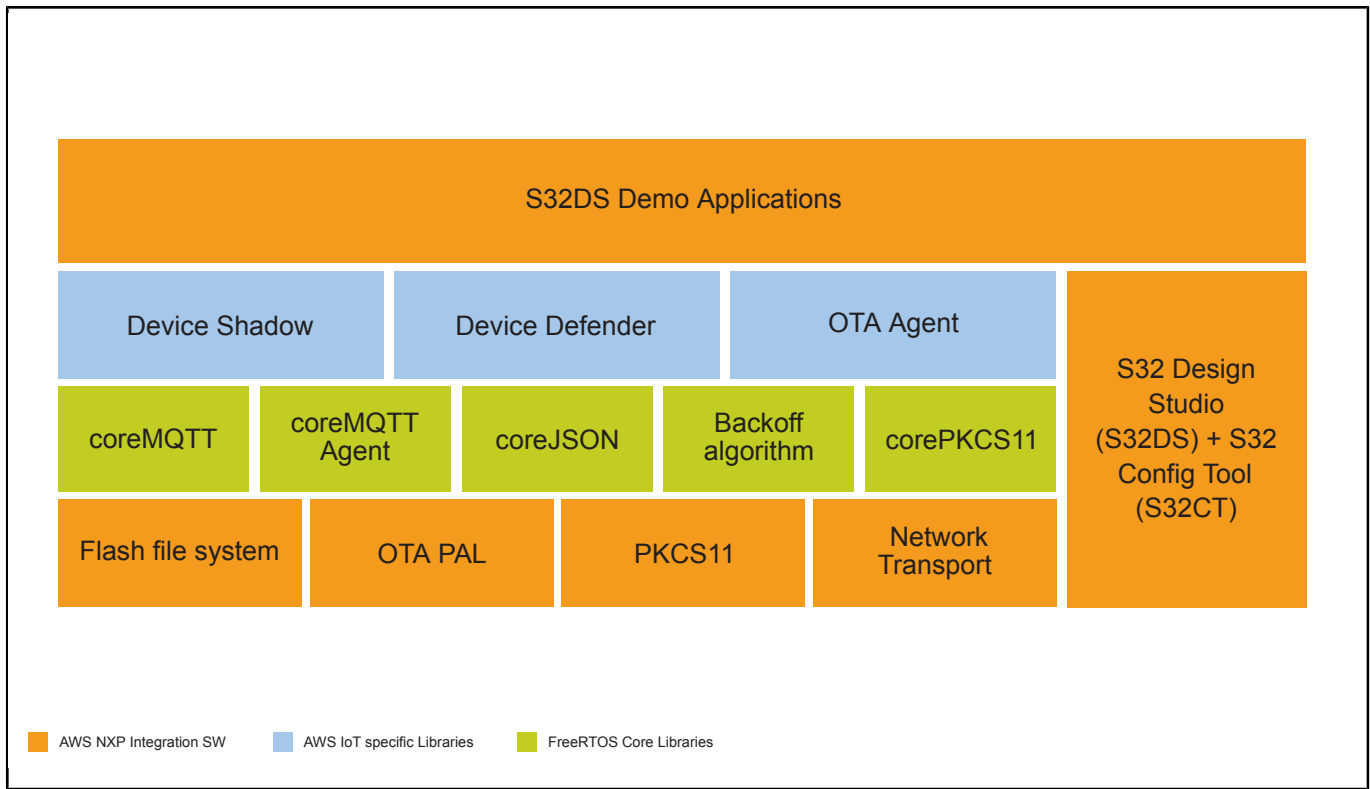## AWS-LIBRARIES-S32K3

Last Updated: Jul 29, 2024

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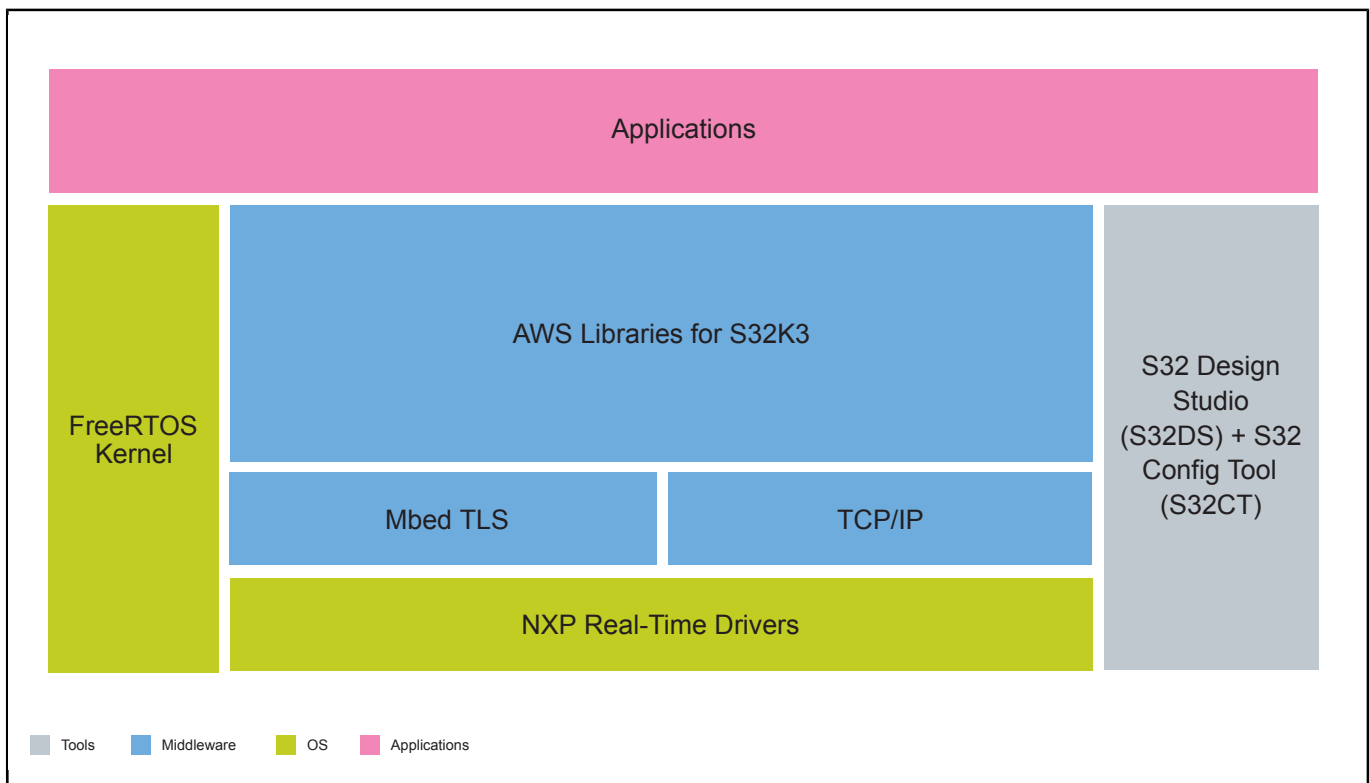
Leveraging AWS IoT Core, S32K3 establishes communication with AWS cloud, transmitting vehicle data for processing and analysis and facilitating actions on data through AWS Cloud Services. S32K3 not only enables cloud connectivity, but also has the capability for over-the-air (OTA) updates unlocking the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

User Guide

AWS Libraries Architecture Block Diagram

S32DS Demo Applications	

Device Shadow	Device Defender	OTA Agent	
coreMQTT	coreMQTT Agent	coreJSON	Backoff algorithm	corePKCS11	S32 Design Studio (S32DS) + S32 Config Tool (S32CT)
Flash file system	OTA PAL	PKCS11	Network Transport	

- **AWS NXP Integration SW**
- **AWS IoT specific Libraries**
- **FreeRTOS Core Libraries**

S32K3 Software Ecosystem Using AWS Block Diagram

Applications	

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

- **Tools**
- **Middleware**
- **OS**
- **Applications**

View additional information for AWS Libraries for S32K3.

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

---

www.nxp.com