NXP Software Development Kit for Find My Network

FMN-SDK

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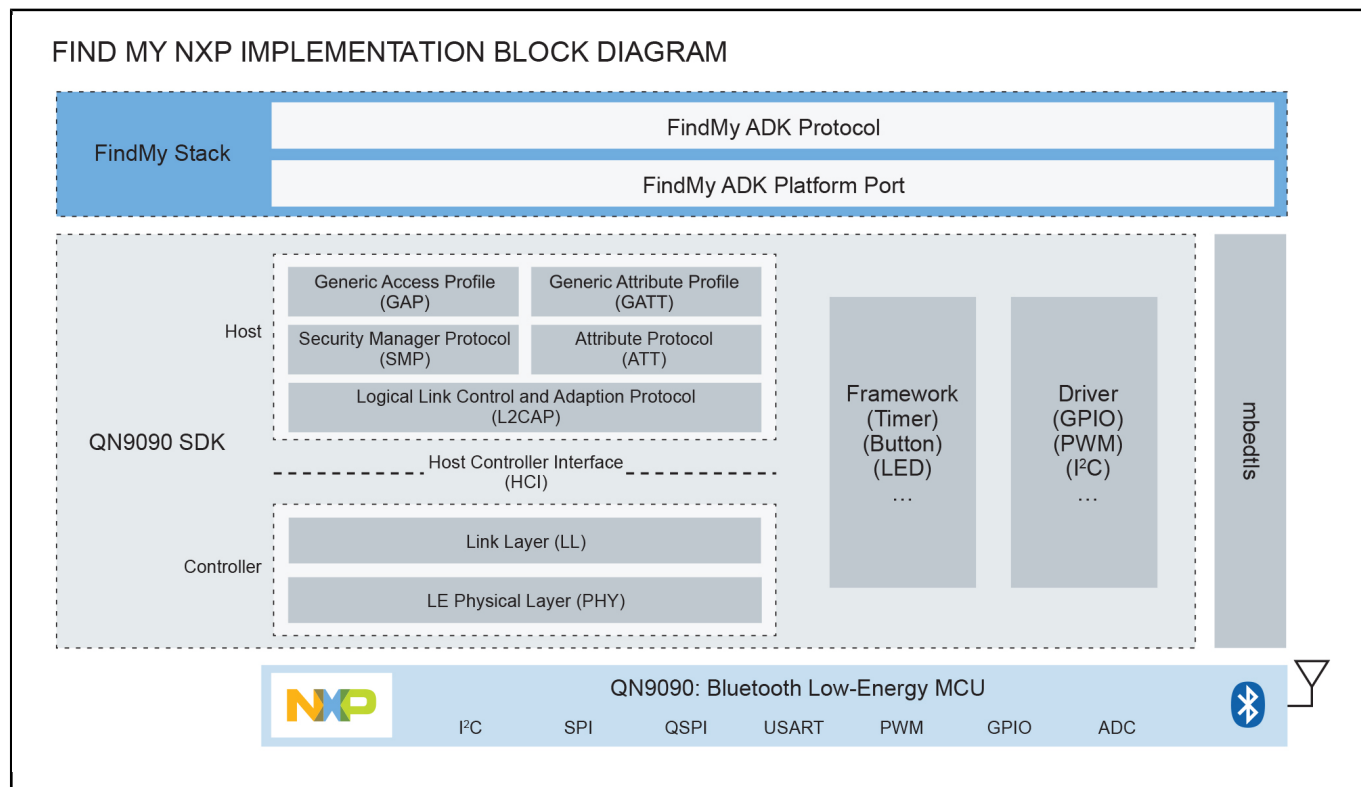
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The Find My Network (FMN) Software Development Kit (SDK) from NXP offers a tracking solution using the Apple Find My network (FMN) technology and Bluetooth® Low Energy connectivity. This FMN solution is architected for NXP QN9090 microcontrollers (MCU) with integrated Bluetooth Low Energy connectivity for easy configuration including full documentation and supporting utilities. In addition, the FXLS8967AF low power accelerometer is used to detect motion to implement the required unwanted tracking functionality. The FXLS8967AF development board can easily be connected to the QN9090 EVK using the on board Arduino® header.

The FMN SDK from NXP is suitable for standalone tracking devices and tracking functionality integrated in a product, as for example a power tool. Please contact NXP for implementation options on other NXP devices with integrated Bluetooth Low Energy connectivity.

For additional information, please contact Mike.Toh@nxp.com .

The FMN SDK is only available to valid and verified MFi licensees included on Apple's Find My network accessory program.

Find My NXP Implementation Block Diagram

FIND MY NXP IMPLEMENTATION BLOCK DIAGRAM

FindMy Stack

FindMy ADK Protocol

FindMy ADK Platform Port

QN9090 SDK

Host
- Generic Access Profile (GAP)
- Generic Attribute Profile (GATT)
- Security Manager Protocol (SMP)
- Attribute Protocol (ATT)
- Logical Link Control and Adaption Protocol (L2CAP)

Host Controller Interface (HCI)

Controller
- Link Layer (LL)
- LE Physical Layer (PHY)

Framework
(Timer)
(Button)
(LED)
...

Driver
(GPIO)
(PWM)
(I^2C)
...

mbedtls

NXP

QN9090: Bluetooth Low-Energy MCU

I^2C SPI   QSPI   USART   PWM   GPIO   ADC

View additional information for NXP Software Development Kit for Find My Network.

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