EasyEVSE EV Charging Development Platform (MCU, FreeRTOS, Wi-Fi 4)
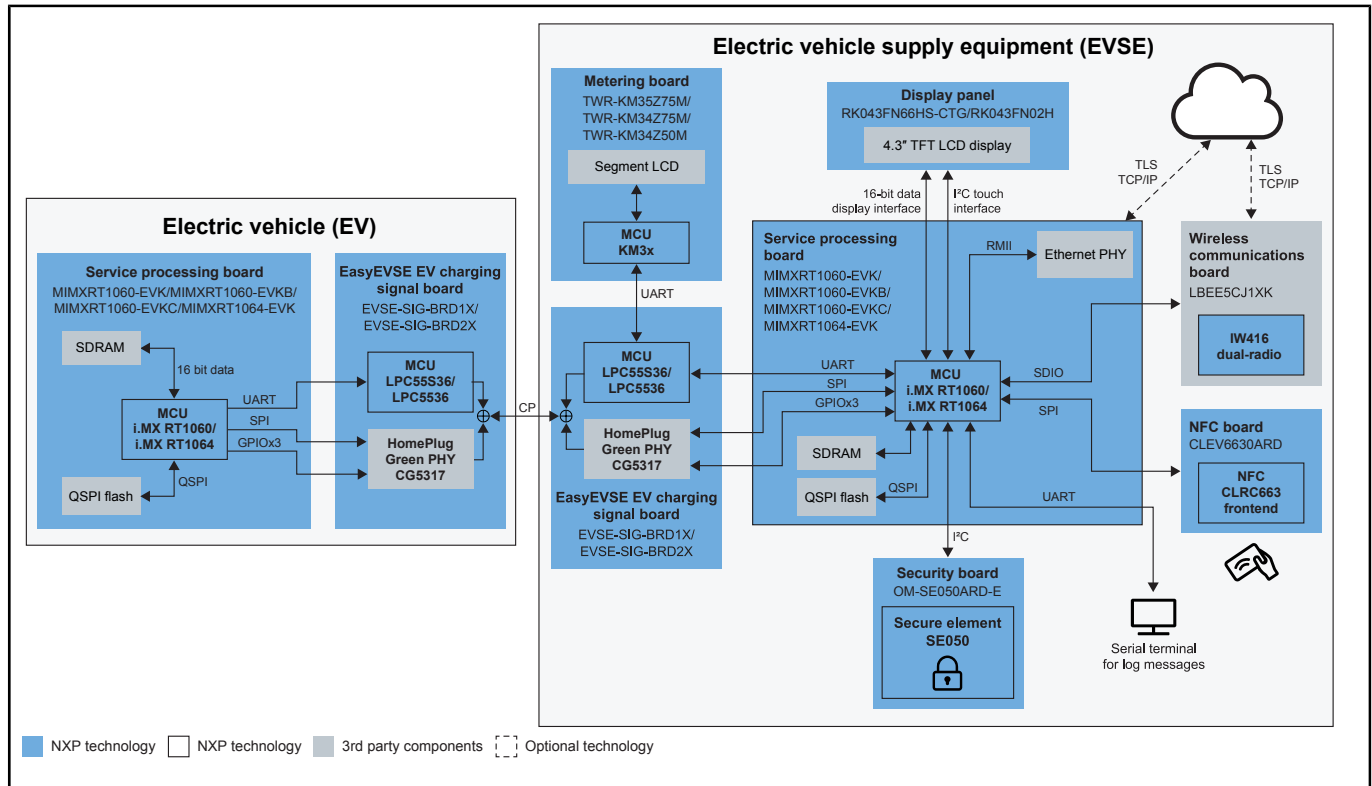
EVSE-EVCHARGING-FREERTOS

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The cloud-connected EasyEVSE EV charging station development platform provides hardware configuration instructions and example software to quickly set up a secure connection between a simulated electric vehicle supply equipment (EVSE) and a cloud-based application. Use the modular, scalable platform as the foundation to start building differentiated EVSE systems that support device-to-cloud and cloud-to-device communications, accurate energy billing and one-tap NFC authentication.

- Integrate power line communication between the EVSE and EV with the NXP EasyEVSE EV Charging Signal Board to drive the ISO 15118 protocol
- Connect to the cloud over Ethernet or Wi-Fi via the IW416 SoC
- Authenticate cloud services such as Microsoft Azure IoT central service
- Enhance security with an EdgeLock™ SE050 secure element
- Support accurate energy billing with a precertified Kinetis M metrology MCU
- Authenticate with one tap using the CLRC663 high-performance NFC frontend
- Leverage NXP and partner development tools to implement other differentiating features on the same platform

EasyEVSE EV Charging Development Platform Block Diagram

View additional information for EasyEVSE EV Charging Development Platform (MCU, FreeRTOS, Wi-Fi 4).

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