



# EasyEVSE Development Platform (Linux OS, EVerest)

## EV-CHRG-STN-MPU

**Active**

Last Updated: May 12, 2026

The EasyEVSE MPU (i.MX 93, Linux OS, Wi-Fi 6) development platform provides software, boards, cables, design files and detailed instructions to quickly simulate a charging control session between a charging station and an electric vehicle. This modular scalable platform is the foundation for developing secure wireless cloud connectivity, accurate energy billing, safe control, one-tap NFC authentication and ISO 15118 power line communications across a HomePlug Green PHY.

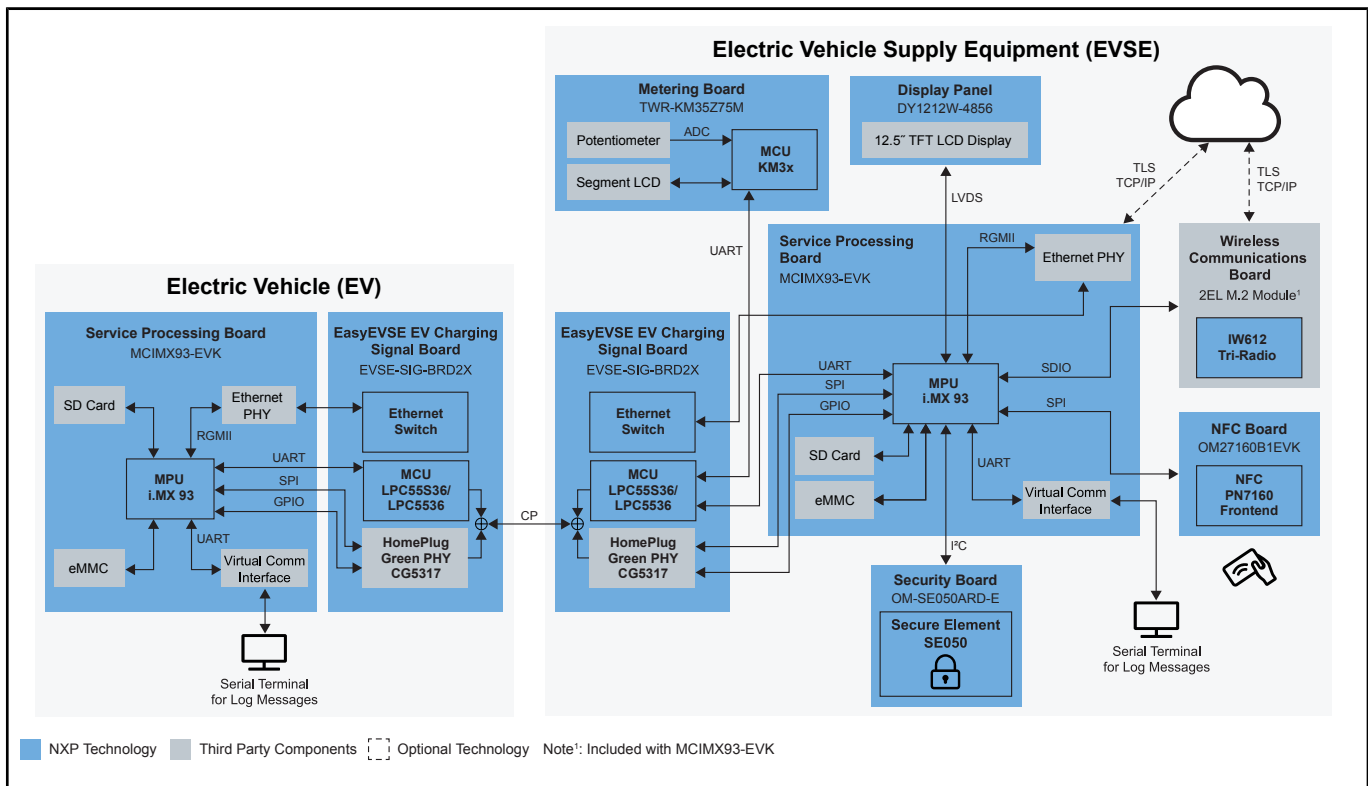
The ISO 15118-2 platform variant supports traditional EV charging with a Plug and Charge feature to simplify the user experience. The ISO 15118-20 platform variant adds support for bi-directional power transfer between the electric vehicle supply equipment (EVSE) and the vehicle.

The development platform supports proprietary ISO#15118 evaluation stack and EVerest open source. The hardware and software configurations vary depending on the selected solution.

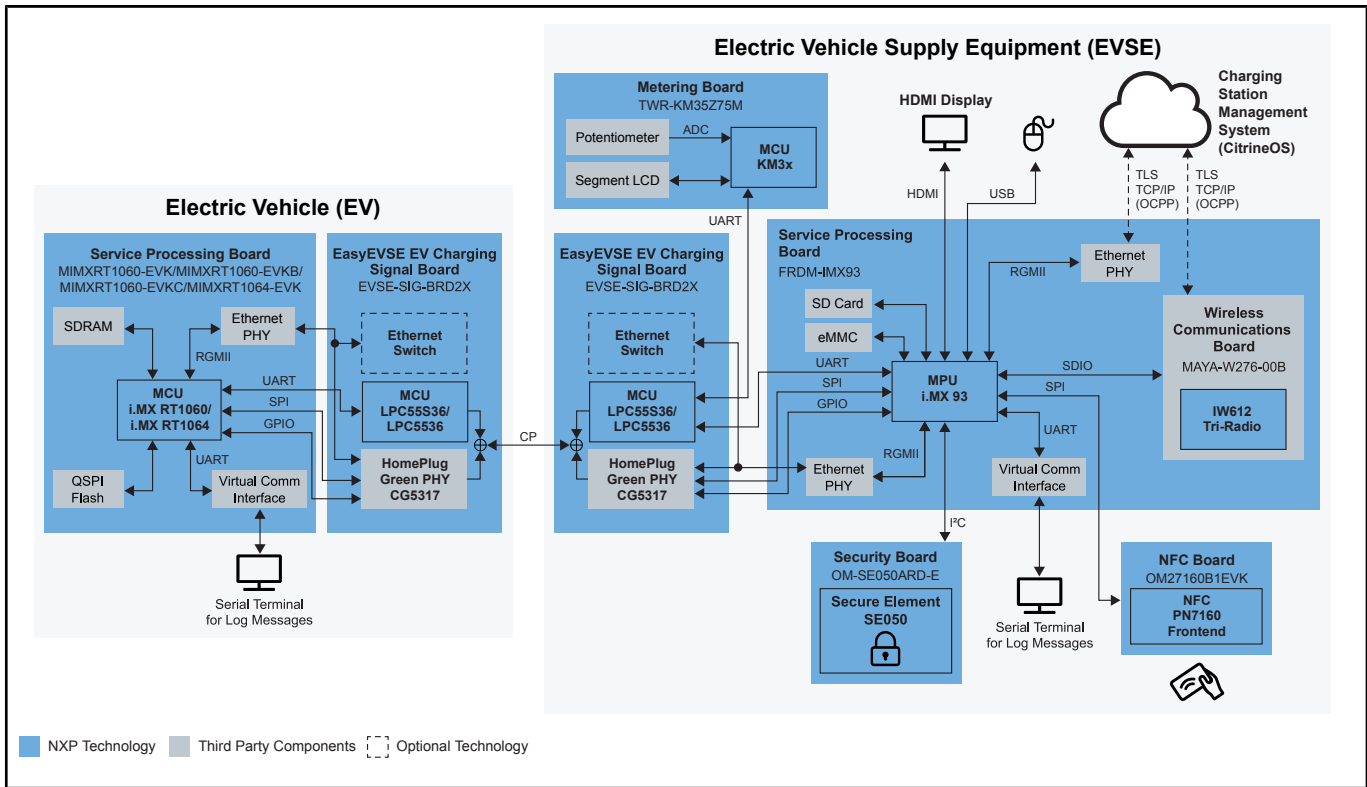
- Proprietary solution, supported features:
  - ISO 15118 commercial evaluation stack (bi-directional charging and Plug and Charge) on the i.MX 93 application processor
  - Basic charging (SAE 1772) software on the LCP5536/LPC55s36
  - Connection via Ethernet or Wi-Fi® Murata module with NXP IW612 chipset (Wi-Fi 6, Bluetooth LE)
  - Encryption and authentication cloud services with EdgeLock® SE050 secure element
  - One tap authentication with PN7160 Plug and Play near field communication (NFC) controller
  - Safety functions (GFCI and relay drive)
  - Accurate power measurement through KM35x and modifiable pre-certified metrology software for accurate billing and power line monitoring

- Custom-designed graphical user interface on the DY1212W#4856 LCD display
- EVerest solution, supported features:
  - ISO 15118 EVerest open-source (bi-directional charging and Plug and Charge) running on the i.MX 93 application processor
  - Open-source EVerest Open Charge Point Protocol (OCPP) library running on the i.MX 93 application processor
  - Basic charging (SAE 1772) software on the LCP5536/LPC55s36
  - Connection via Ethernet or Wi-Fi® Murata module with NXP IW612 chipset (Wi-Fi 6, Bluetooth LE)
  - Encryption and authentication cloud services with EdgeLock® SE050 secure element
  - One tap authentication with PN7160 Plug and Play near field communication (NFC) controller
  - Safety functions (GFCI and relay drive)
  - Accurate power measurement through KM35x and modifiable pre-certified metrology software for accurate billing and power line monitoring
  - Custom-designed graphical user interface on the DY1212W#4856 LCD display

### EasyEVSE Development Platform with proprietary ISO 15118 stack Block Diagram



### EasyEVSE Development Platform on EVerest Block Diagram



View additional information for [EasyEVSE Development Platform \(Linux OS, Everest\)](#).

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

[www.nxp.com](http://www.nxp.com)

NXP and the NXP logo are trademarks of NXP B.V. All other product or service names are the property of their respective owners. The related technology may be protected by any or all of patents, copyrights, designs and trade secrets. All rights reserved. © 2026 NXP B.V.