PIONIX

RZ Ecosystem Partner Solution
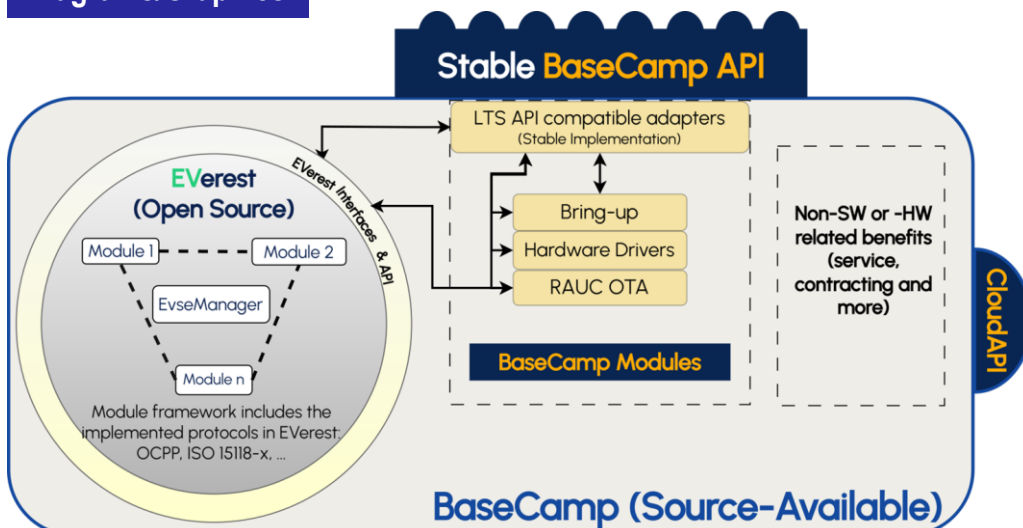# PIONIX BaseCamp

Solution Summary

PIONIX BaseCamp is the subscription service for a commercially viable charging solution, which adds maintenance, support and developer tools on top of the open-source technology EVerest. The EVerest project, initiated by PIONIX and part of Linux Foundation Energy, is an open-source modular framework for quickly creating firmware for any kind of EV chargers. BaseCamp entails access to a manufacturer cloud and allows you to monitor your charging stations in the field. Demo on RZ/G2L is readily available with out of the box support also for the Renesas RZ Family of MPUs.

Features/Benefits

- Modular microservice architecture and middleware
- Out-of-the-box support for all relevant EV charging protocols, including OCPP 1.6/2.0.1, ISO 15118-2(AC+DC), SAE J2847/2, DIN SPEC 70121, IEC 61851/SAE J1772, MQTT
- Ready to go drivers for your hardware platform
- Fast customization through "no code" configuration
- Testing certification and updates as a service with PIONIX BaseCamp

Diagrams/Graphics

Target Markets and Applications

- EV charging
- Energy
- Infrastructure
- Battery & storage

www.pionix.com/basecamp-os-for-ev-chargers

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PIONIX builds products for a reliable and convenient EV charging ecosystem, based on the best compatible and most versatile charger firmware. Its enterprise products and services enable customers to focus on delivering value to end-customers. PIONIX is the leading pioneer in open source software for EV charging and initiated the open source project EVerest.

High efficiency and high power are core requirements for charging stations. This demands, first, the usage of robust hardware and, second, an operating system that supports the latest industry standards and provides all functionalities for EV chargers.

LF Energy project EVerest is an open source modular framework for EV charging, consisting of multiple modules which can be configured and customized for any use case.

Renesas' RZ family of MPUs is capable of running the full EVerest framework, tested and demonstrated e.g. with the OCPP stack (Open Charge Point Protocol). This offers charger manufacturers numerous benefits as they can easily integrate EVerest in their hardware designs.

PIONIX BaseCamp: The perfect base for your commercial applications!

PIONIX BaseCamp is a subscription service for EV chargers based on EVerest, which adds constant testing, regular updates, and ease-of-use to the open source core. Ongoing development and addition of related future updates of relevant standards like OCPP 2.1, ISO15118.

It includes documentation, technical support, stable APIs, pre-certified modules, drivers for other common hardware components and maintenance.

Learn more: https://pionix.com