

RE Partner Solution

HST System Development Support for RE Family



Overview

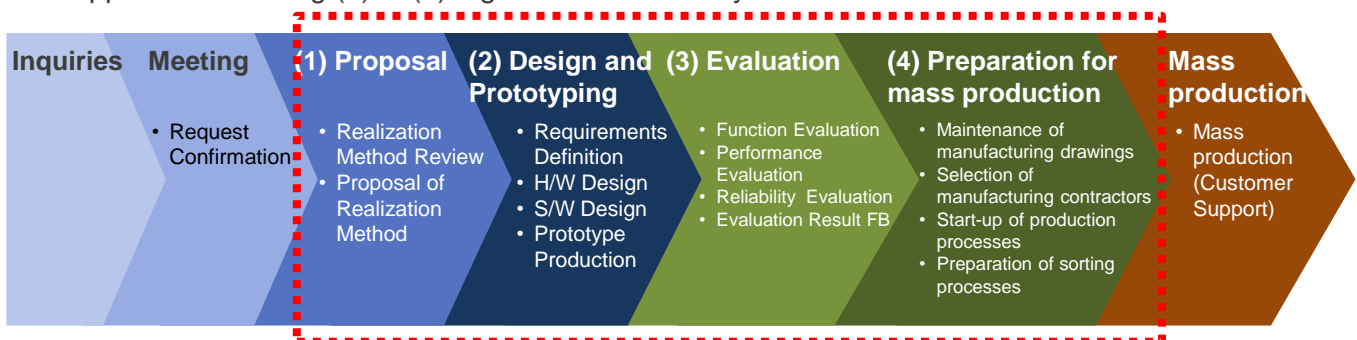
We offer a wide range of services, from proposing a system that combines [RE Family](#) and various sensors, to H/W design, prototyping, performance evaluation, S/W development, and mass production preparation.

Features/Benefits

- Provide one-stop development for software design and hardware design
 - Hardware development technology from PCB design and logic design to structural design of housings
 - Software development technology from OS porting to app software
- Various know-how
 - Possession of high-quality design know-how
 - Possession of reliable testing know-how

Diagrams/Graphics

We support the following (1) to (4) together or individually.



- (1) We propose a method for implementing RE Family based on customer outline specifications.
- (2) Design software and hardware from requirement definition and produce prototypes. Along with the finished product, we will present the customer documents such as a requirement definition and a detailed design document
- (3) Evaluate functions, performance, and reliability based on prototypes and improve them.
- (4) Mass production preparation includes maintenance of manufacturing drawings, selection of manufacturing contractors, start-up of production processes, preparation of sorting processes, etc.

Target Markets and Applications

- Healthcare (elderly and health management system)
- Monitoring (children and logistics monitoring system)

Development Results

• Development of evaluation boards for RE Family

Analog boards, EMC boards, BIAS boards

• Development of prototypes of ecological power generation beacons

(1) Overview

A terminal that generates electricity by indoor light and transmits beacons without batteries

(2) Specifications

- Indoor light: 500Lx or more
- Initial start-up time: within 1 minute
- Beacon transmission interval: 1 second or more
- Energy storage: Works one day in the dark at full charge
- Dimensions: 38.6 (W) x78.6 (D) x15.5 (H) mm
- Temperature range: -10°C to 50°C



Solution Proposal

• Development of biological information systems in the healthcare

We support a system that detects heartbeat, breathing, and sleep status from vibration sensors installed in nursing home beds and manages the health of residents.

It is realized by combined with a biological sensing system based on vibration sensors developed by Hitachi Solutions Technology, Ltd. and a RE Family.

We also support system development in the healthcare for the purpose of health management.

(1) Vibration Data Conversion Unit: Hardware, Firmware Development

(2) Sensor Unit: Hardware Development

(3) Analysis Library

