infinode.

Tailored Hardware Configuration | Firmware ODM | Rich Comm. and I/O Interfaces | In-system or Stand-alone Commissioning | IOT-Ready

Email info@infinode.io to enquire

# Hardware Tailored for Your DER Management Product Portfolio

**Use the iDLC3 product and our SOFT-ODM service to speed up your product's time to market and reduce the upfront cost.**

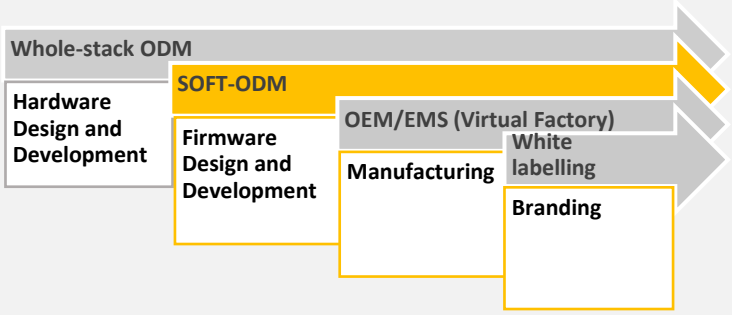
The iDLC3 Series ODM solution platform is one of our soft-ODM solution platforms with flexible hardware configuration thanks to the modular structural and electronic design.

This ODM platform and solution is provided to business clients only. Business clients can use this platform as a foundation to define their own energy management device solution. Infinode can develop or co-develop the firmware based on client-defined functionalities and logic.

iDLC3 has been tested against CE and Australian RCM related standards. Third party lab testing reports can be provided upon request.

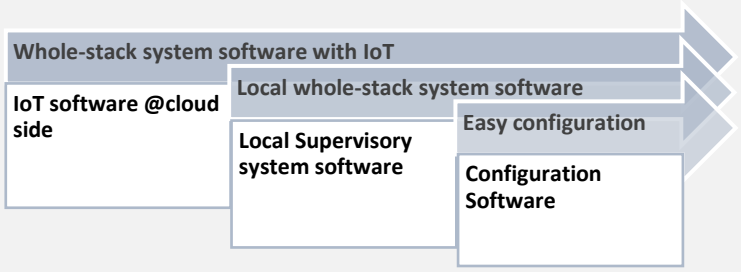
- **Where iDLC3 is positioned in the service/solution frameworks we offer:**

*DEVICE* development service:

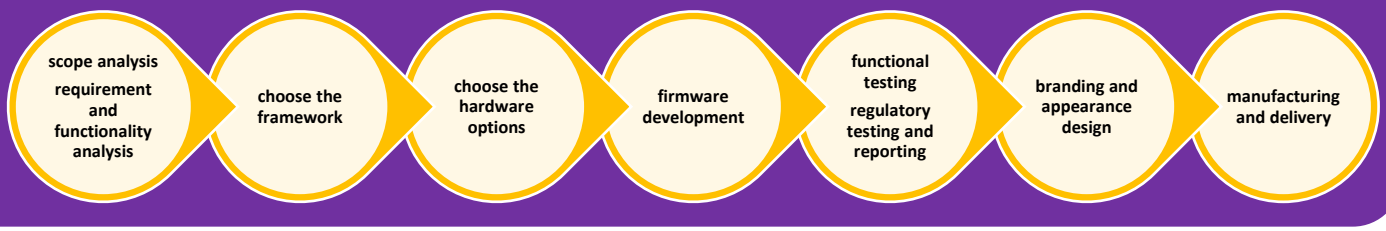



*Optional SYSTEM development service:*

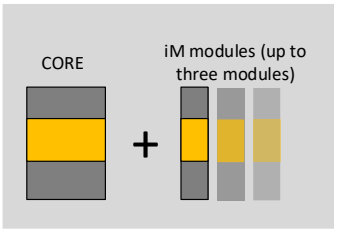
Apart from the device development service, our clients can also ask for the optional system development service:




## The process

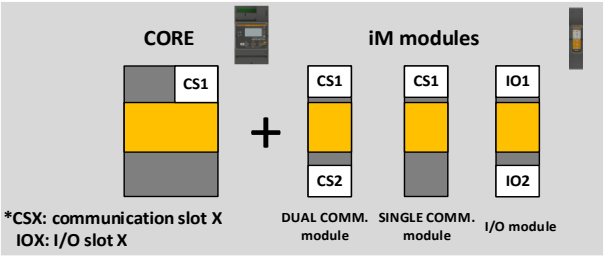


## DEVICE framework options for iDLC3-CORE




| Item code | Description | Type |
|---|---|---|
| *iDLC3* | Local device platform with optional extern control/config | CORE |
| *iDLC3-W* | Local device platform with built-in WEB for configuration | CORE |
| *iDLC3-IoT* | IoT device platform | CORE |
| *iM* | Expansion modules | expansion |

## Hardware configuration options for iDLC3




Both the CORE modules (iDLC3, iDLC3-W, iDLC3-IoT) and the DUAL/SINGLE COMM iM modules come with internal communication board slot(s), with which the client can define the communication or field bus functionalities. The CORE modules also come with standard digital input/output and one RS485 port. A full list of supported configurable functionalities can be found on our website or in the leaflet of iDLC3.

| Configuration code | Description |
|---|---|
| *Metering-H* | High sampling rate and refreshing rate of power/energy measurement data, conform to VPP requirements<br>Harmonic measurement for power quality analysis, predictive maintenance, conditional monitoring |
| *Metering-B* | Power/energy measurement. Harmonic measurement for power quality analysis |
| *Energy safety* | Continuous residual current monitoring (type A, type B). Cable temperature monitoring |
| *UI* | User interface (LCD, LED, button) functions according to client's requirement and design |
| *RS485* | RS485 with Modbus RTU master or slave |
| *IO* | digital inputs and/or digital outputs |
| *Comm. slot -1 (CS1)* | Choose one of the following:<br>LAN(Ethernet), Wi-Fi, Wi-Fi with BLE, LoRa, LTE cat-M1, LTE cat-1, RS485, Fusion-bus<br>CT-bundle (for when both **Metering** and **Energy Safety** are chosen) |
| *Comm. slot-2 (CS2)* | |
| *Control logic* | Functionality/logic/algorithm of the device |

## Modular firmware options for iDLC3

We also have several pre-developed firmware modules for faster development, deployment, and evaluation.

- distributed energy resource and smart load control
- embedded network consumer/prosumer energy management *
- electric fire safety analysis
- fusion bus expansion for multi-circuit monitoring/measurement
- PC/WEB based device management **