

RA Ecosystem Partner Solution Network Interface Card(NIC) based on Renesas RA2E1 MCU



Solution Summary

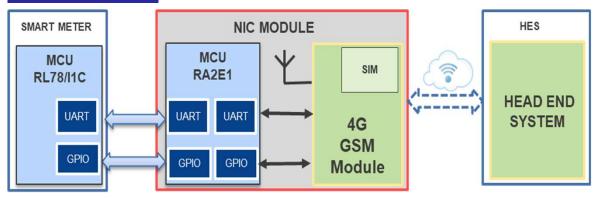
JNE's Network Interface Card (NIC) module is a ready-to-use solution for smart metering using the onboard RA2E1/32Pin ARM MCU chip (RA2E1 - 48MHz Arm® Cortex®-M23 Entry Level General-Purpose Microcontroller | Renesas). NIC(Network Interface card) is extended communication card in Smart meter. NIC can easily integrate with electricity meters (1-Phase & 3-Phase) and leverages any available network to form a highly resilient network for the utility. NIC supports 2-way wireless (GPRS, NBIOT etc.) functionality, remote data acquisition, meter program management, and real-time alerts for meter tampering and outages info to Utilities. 2-way communications network gives utilities greater efficiency, more reliable data delivery, improved customer satisfaction, and a scalable platform to support advanced smart grid and smart city applications.

Features/Benefits

- Onboard MCU can handles multiple communication technology
- o Support multiple 4G/GPRS Comm Modules
- Support IPv6 network addressing.
- Support push the data at configured intervals to the HES
- Secure communication to HES
- Programmable Data acquisition (Push/Pull) frequency
- Support Firmware (FOTA) upgradation
- Power consumption as per IS-16444



Diagrams/Graphics



Target Markets & Applications

- Smart Meter
- Net Metering
- Energy Monitoring
- Water Meter
- Gas Meter
- IoT Application



JNE Profile

JN Enterprise(Now New registration JNE Smart technologies Pvt. Ltd.) is an engineering services & technology solutions provider with core expertise in the Smart product development like Smart Meter, Embedded Systems, Health product ,EV charger, Smart plug and Cloud Software Services ,Android Apps and help to setup manufacture plant.

A Smart Partner for Smart Product & Metering Market Enablers

JNE Product & Services offering





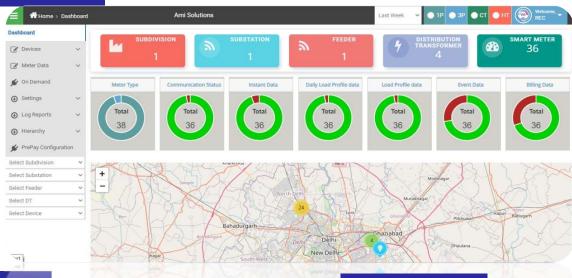








JNE HES Dashboard



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