

NICHICON Small Li-Ion Rechargeable Battery



Solution Summary

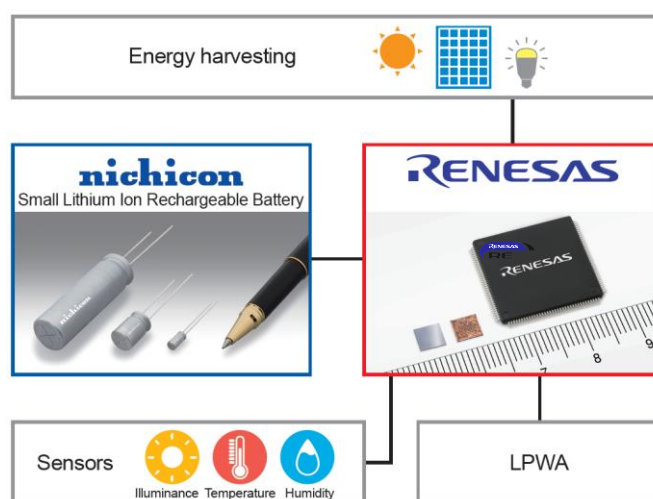
It is now possible to realize energy harvesting IoT equipment utilizing a minuscule amount of environmental power generation (e.g., light, vibrations and flow rate). This is done by using an embedded controller that utilizes the [RE Family](#) and nichicon small Li-ion rechargeable battery.

Features/Benefits

- SLB series of small Li-Ion Rechargeable Batteries achieve both high power density and high energy density
- Rapid charge/discharge : High input/output density approaching electric double layer capacitors
- Long life : Maintain a capacity of at least 80% after 25,000 charging/discharging cycles
- Safety : Extremely low possibility of explosion or ignition even when used under harsh conditions
- Low temperatures : Possible to use in cold regions (-30deg.C)

Diagrams/Graphics

Optimal Battery for Energy Harvesting Equipment



Target Markets and Applications

- Smart Home
- Smart Factories
- Smart Agriculture
- Disaster Detection
- Fixed Point Observation
- Condition Monitoring

<https://www.nichicon.co.jp/english/products/slb/lineup/>



Company Name	NICHICON CORPORATION
Head Office Location	Karasumadori Oike-agaru, Nakagyo-ku, Kyoto, 604-0845 Japan TEL. 81-75-231-8461 FAX. 81-75-256-4158
Established	August 1, 1950
Capital Stock	14,286 million yen (As of March 31, 2020)
Net Sales	119,675 million yen (As of March 31, 2020 Consolidated)
Employees	5,409 (As of March 31, 2020 Consolidated)
Listings	First section, Tokyo Stock Exchange
Product Lines	Aluminum electrolytic capacitors, Plastic film capacitors, Small Li-Ion Rechargeable Batteries, Positive thermistors "Posi-R", Household energy storage systems, Vehicle-to-Home (V2H) systems, EVs/PHVs Quick Charger, Public and industrial power storage system, Switching power supplies, Function modules, Power sources for medical accelerator, Power sources for academic study accelerator, Momentary voltage sag compensator, Power outage compensator

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