POWERING A NEW DIMENSION

IT-EKX121025B
250 µA.h MICRO-BATTERY EVALUATION KIT

KEY FEATURES

- USB kit for Windows PC
- Includes a battery with power management
- Precise monitoring of source, battery and loadcurrent and voltage
- 10nA-100mA measurement with auto-range
- Metrology without leakage or overshoot
- Up to 10 kHz sampling

- Includes a continuous and a pulse load
- Enables programmable load (PWM)
- Charge/discharge cycling tests
- Test of RTC and Energy harvesting solutions
- Operates with a separate F767ZI (Nucleo) board (not included in the evaluation kit)
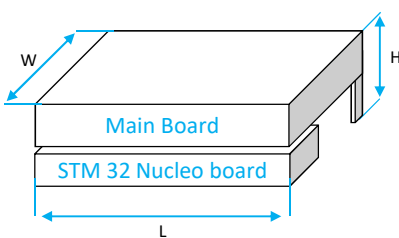- Autotest included

USAGE

- Quick development of micro-powered systems
- Precise assessment of autonomy and micro-current consumption
- Easy fine tuning with numerous plugs for discrete devices
- Long-term monitoring of battery behaviour
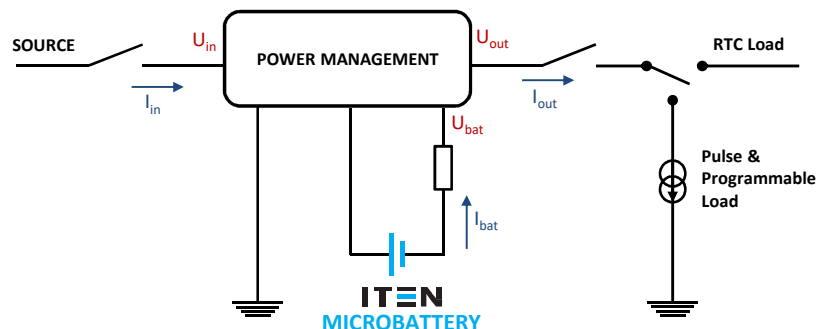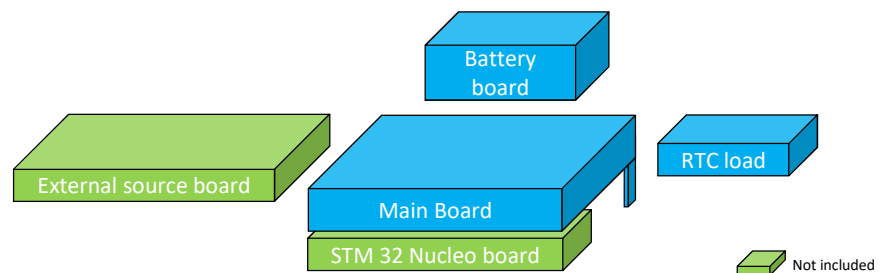- Qualification tests in temperature

KIT OUTLINE

EVALUATION KIT OUTLINE

Main Board
STM 32 Nucleo board

Dimensions (mm)

L	W	H
145	125	25

Battery board
External source board
Main Board
STM 32 Nucleo board
RTC load
Not included

SOURCE — U_{in} — POWER MANAGEMENT — U_{out} — RTC Load
I_{in} I_{out}
U_{bat}
I_{bat}
Pulse & Programmable Load
MICROBATTERY

Evaluation Kit line up

ORDERING CODIFICATION

IT	-	EKX	12	10	10	A	A	C	A	A	A

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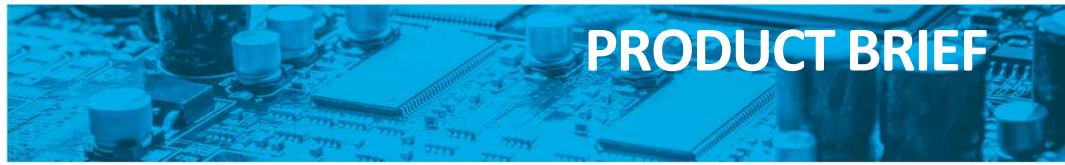
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TEST SET-UP

- **Easily customizable by plugging components on the board**
- **Enables two battery recharging methods : USB port or external energy harvester**
- **Discharge through an auxilliary device (e.g. RTC) or emulation of a pulse or a programmable load**
- **Choice of multiple test conditions (test duration, end of charge voltage, sampling rate, etc.)**

Micro Battery Evaluation Kit rev. B
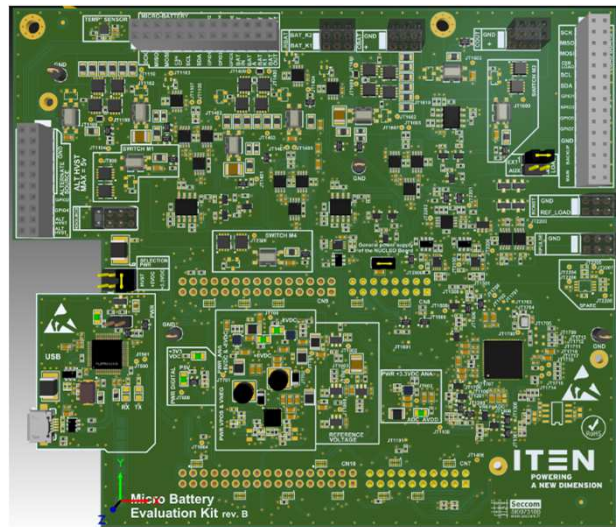
MONITORING & POST PROCESSING

- **Real time access to currents, voltages and temperature**
- **Real time setting of a dynamic sampling rate based on time or voltage variation**
- **Testing duration ranging from seconds to months**
- **Data files generation using a standard format for an easy Excel post-treatment**

Charge 2.7 V (CV) / Limitation at 1000 * It (250 mA)
End current 0.1 * It (25 µA)
Temperature 20 °C