



Xtreme Low Power Chip with Energy Harvesting

Xtreme Low Power Chip with Energy Harvesting. A perfect solution to reduce the batteries wastage and minimize CO2 footprint in Home Entertainment and Smart Home Controller

Create a sustainable world is utmost important for future generation, we believe this is the goal for enterprise like you. As a leader in entertainment and smart home technologies, Universal Electronics Inc. is committed to help transition the world towards a more sustainable future by reducing primary battery wastage throughout the product lifespan, as the result to reduce the CO2 footprint. Benefit from our unique Xtreme Low Power (XLP) Chip with Energy Harvesting plus High Density (HD) Indoor Solar Panel, you can enjoy the advantages below:

Reduce the battery waste and proper disposal crisis

Every year, UEI shipped more than 145 million remote control and silicon to our customer globally, each unit consume 2 batteies in average every year. It will used up nearly 22.5 billion batteries in 10 years time. Based on remote controller with 7 years life time, this is long enough to line up around the earth 25 times.

Minimize the Carbon footprint impact

Material composition and CO2 footprint analysis¹ reveal each alkaline batteries carries 107g CO2 footprint each year. Cumulative 22.5 billion pcs batteries in 10 years will generate 2.4million tons of CO2 footprint, equivalent to 522,653 passenger cars.

Define a frictionless new consumer experience

- Depends on the selected option from our portfolio, users do not need change the batteries frequently as today or even not at all anymore.

No compromise to the product features

- Advanced features including adaptive backlight, always listening handsfree voice can be supported in remote control without compromise in battery life

Time to market without additional development effort

- One-stop shop Xtreme Low Power Energy Harvesting offering included the multiple protocol SoC, HD solar panel plus software development kit. We can help to shorten the product development cycle and commercialize the product in short period of the time.

(1) Market Research report: <https://www.ansys.com/products/materials/granta-edupack>



Product USPs



Battery for life



Minimize CO2 footprint



Compatible with QuickSet



Powerful



Secure

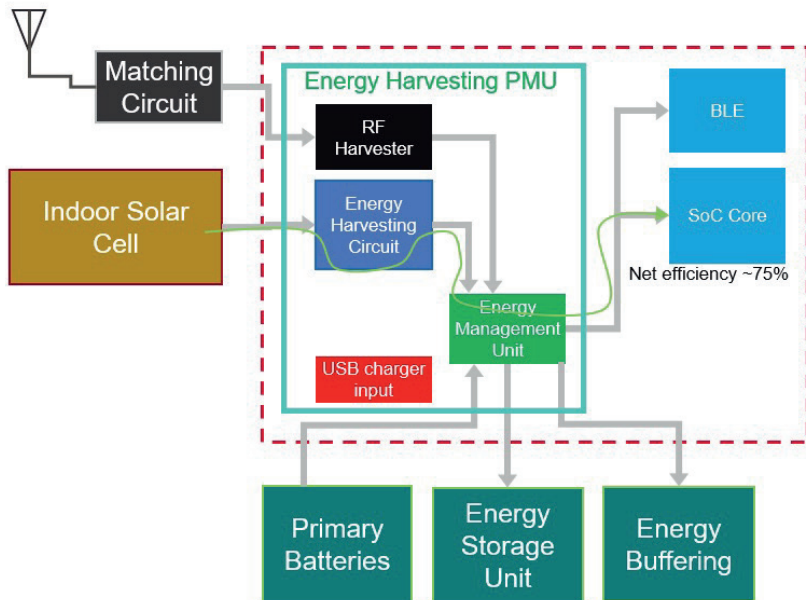
Xtreme Low Power Chip with Energy Harvesting

Technology



- 2.5x Computing Power compared to previous generation SoC
- Battery-4-Life (never change a battery) when paired with its built-in Solar and RF Harvesting² capabilities.
- Allows for efficient and cost-effective energy harvesting of already-present; ambient energy such as light and radio frequencies.
- Enables desirable but power-hungry features such as backlight, audible remote finder, and hands-free voice.

(*) Energy harvesting feature is limited to UE962



(1) 2.5x Computing Power compared to previous generation SoC

(2) RF harvesting included Cellular Mobile signal, Wi-Fi, Bluetooth, Zigbee, etc

Key Highlight

Model UE961

- Model UE961 Xtreme Low Power Single Protocol Wireless SoC



Model UE962

- Model UE962 Xtreme Low Power Single Protocol Wireless SoC with Energy Harvesting



UE961 & UE962 are an extreme low power Bluetooth LE 5.3 SoC tailor made for the next generation wireless remote controller and sensor applications. Benefit from the energy harvesting* feature, product will be auto-recharged and end user need not to change the battery anymore. This is a perfect solution to create a battery free product in order to minimize the CO2 footprint.