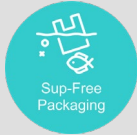


Eterna Platform

Eterna Xtreme low power

Eterna XLR Energy harvesting

Key Focus topics for Eterna family



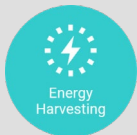
Extend the solution offering for complete SUP-free product delivery



Reduce the use of virgin plastics with >85% PCR recycled material

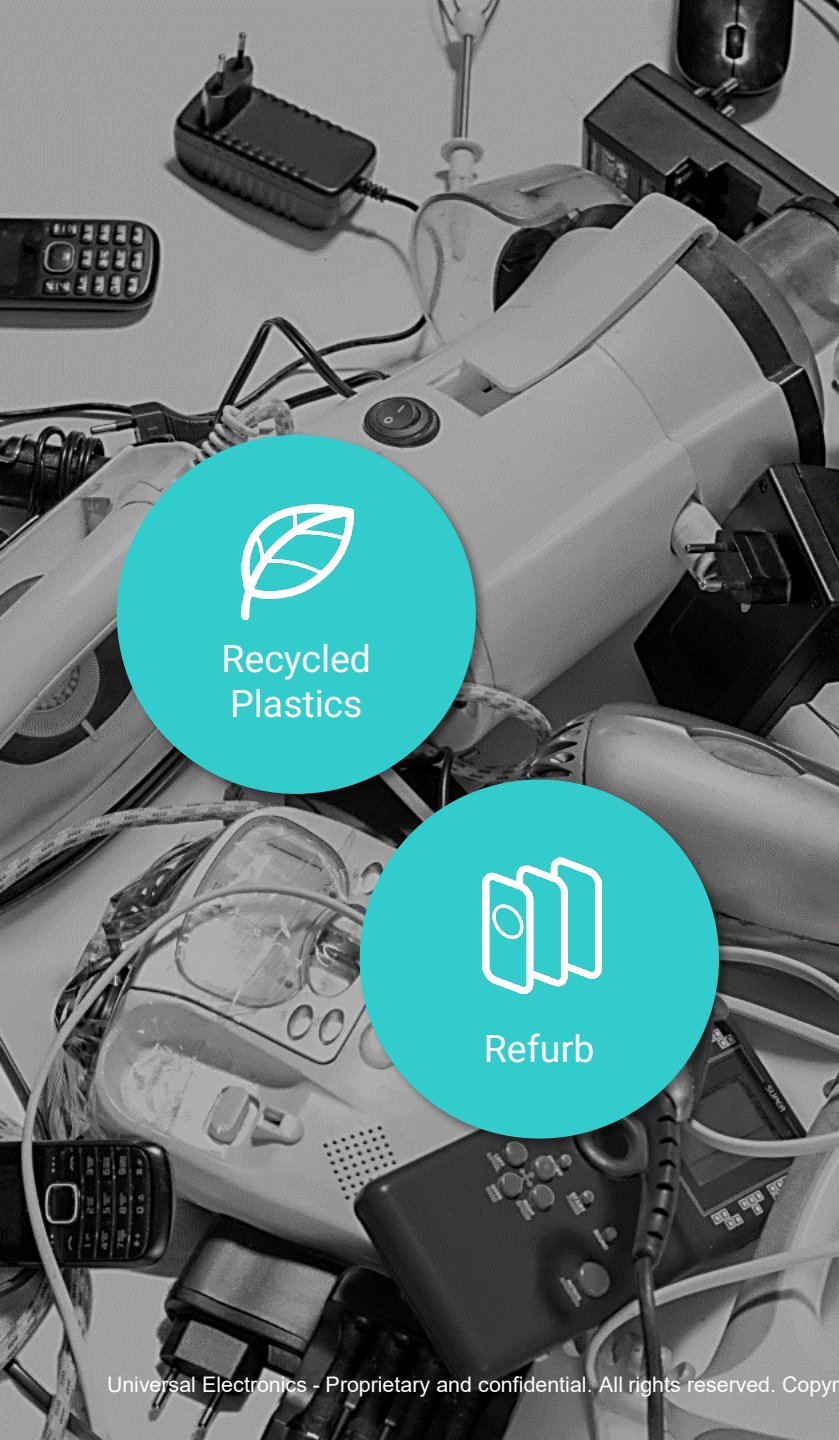


UE961 & 962 Xtreme low power SOC with Energy Harvesting capability



Next-generation indoor PV cell solution & RF Harvesting technology






Recycled
Plastics


Refurb




Energy
Harvesting





Eco
Packaging

UNIFYING RECEIVER

Unifying wireless mice and keyboard
Mäuse und Tastaturen mit Logitech
et claviers sans fil Logitech
y teclados inalámbricos



2.4 GHz

Reliable 2.4 GHz
wireless
Zuverlässige
kabellose
2,4-GHz-Verbindung
Connexion fiable
sans fil 2,4 GHz
Conexión
inalámbrica fiable
de 2,4 GHz



CMF:
Ocean



CMF:
Slate




Enhanced
Tactility




UE961 Xtreme Low Power



Remote controls contribute to over
80 billion batteries
disposed over a decade globally

Eliminating 1 million tons of waste




Xtreme
Low Power

* Compared to conventional BLE/Voice Remotes
** Compared to previous generation SoC

80%

More
Efficient*



Xtreme
Low Power

>9X

Battery life*

2.5X

Computing Power**

Eterna

Xtreme low power

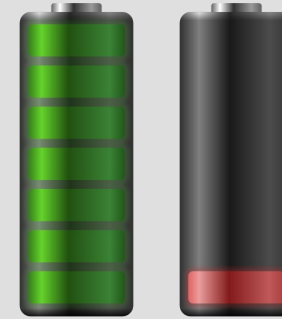
- Ambient-Aware High-Efficiency Backlight
- Designed for Refurbishment and Recycling



>6x
Longer
Battery Life*

IR/BLE/Voice

Eterna
Xtreme low power

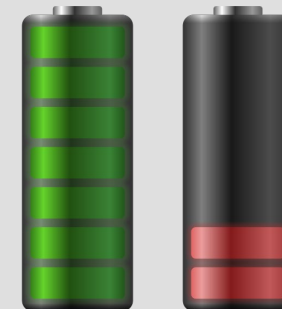


Conventional
Remote

>3.5x
Longer
Battery Life**

IR/BLE/Voice/Backlight

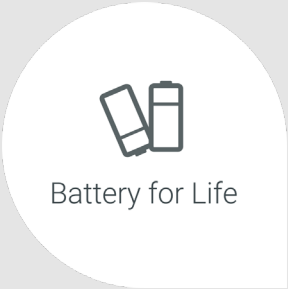
Eterna
Xtreme low power

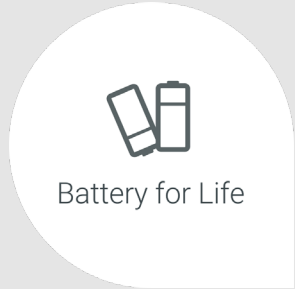


Conventional
Remote

** Compared to conventional IR/BLE/Voice/BL remotes, under standard UEI use case

*** IR/BLE/Voice remote, estimated under standard UEI use case





Battery for Life



1.000.000



10.000.000



610 tons of CO₂



During the remote lifetime (7yr)

UE962 Energy Harvesting

All the features & performance of UE961, plus...

Harvestable Energy

- Multiple energy sources indoor suitable for harvesting
- Ultra low power micro architecture silicon design
- Built in energy harvester unit and highly efficient power management unit that store harvested energy efficiently



Ambient Light



RF



Kinetic



Thermo



Samsung ECO remote

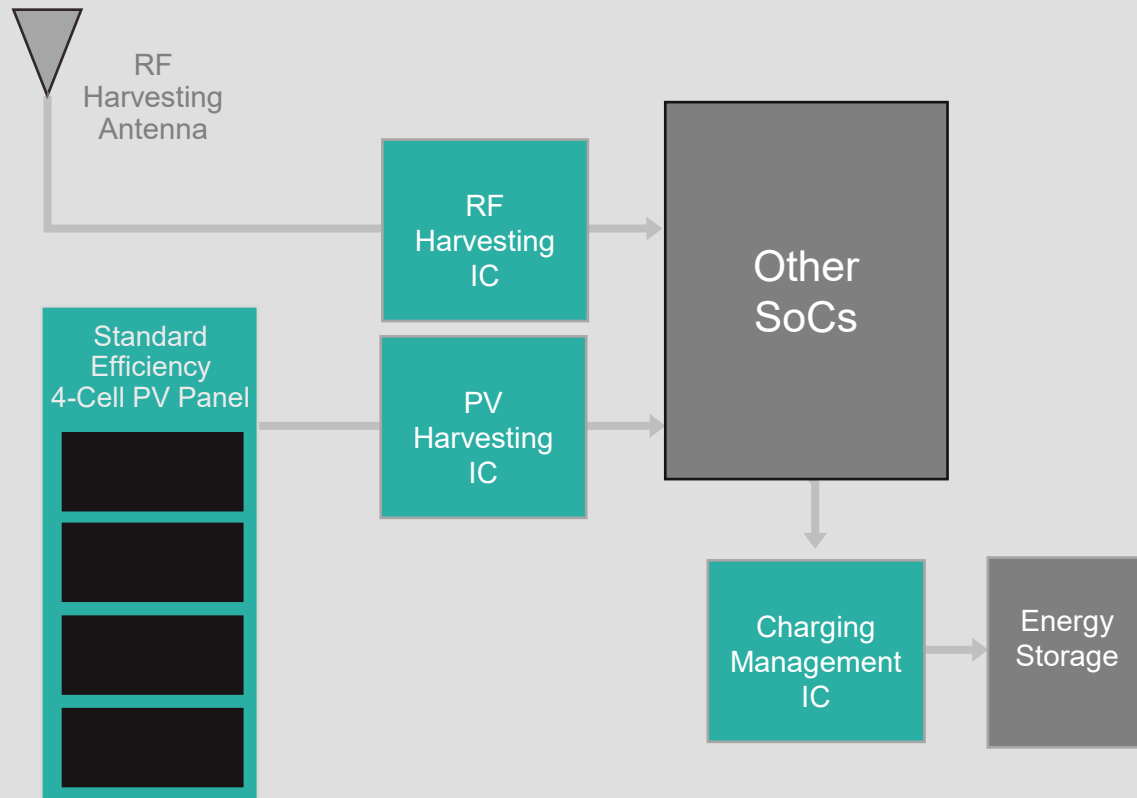
- First deployment of new UE1 chipset
- Combines RF harvesting and large (conventional) PV solar panel on the back
- Announced at CES 2022
- Commercial introduction planned for Spring 2022



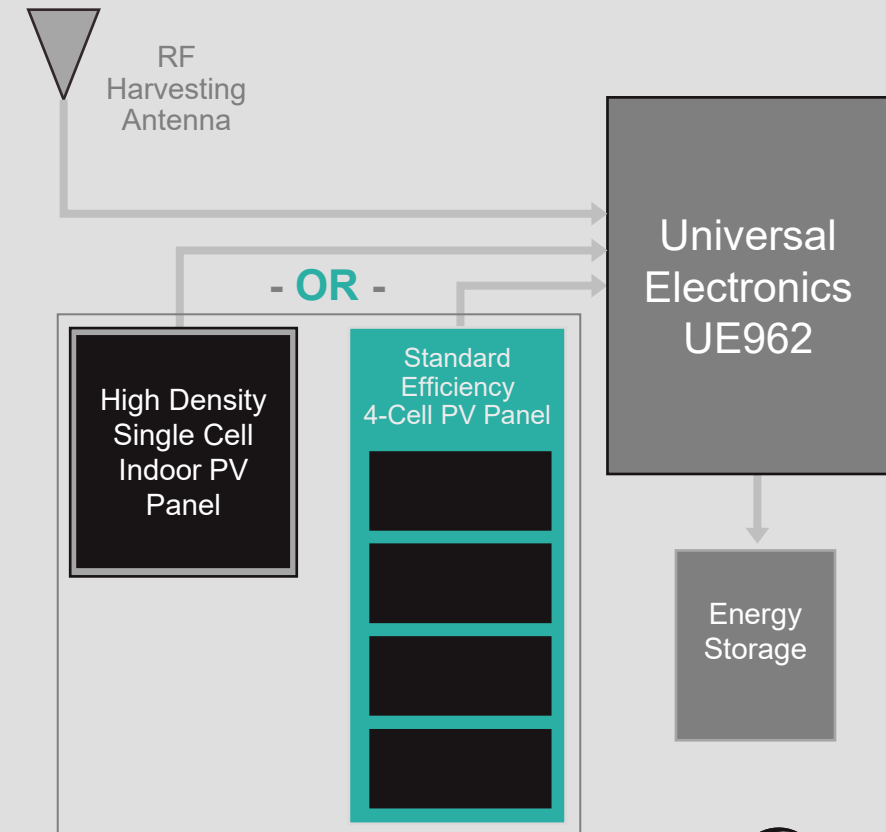
Next Generation SoC UE962 with Energy Harvesting

Higher efficiency, lower component count, lower cost

Conventional multi chip design

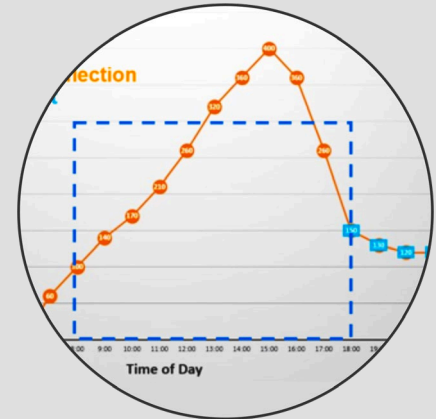
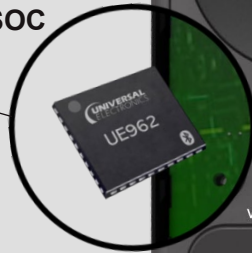


UEI Fully Integrated Solution



EXTREME LOW-POWER SOC WITH ENERGY HARVESTING

UE962 Harvesting SOC



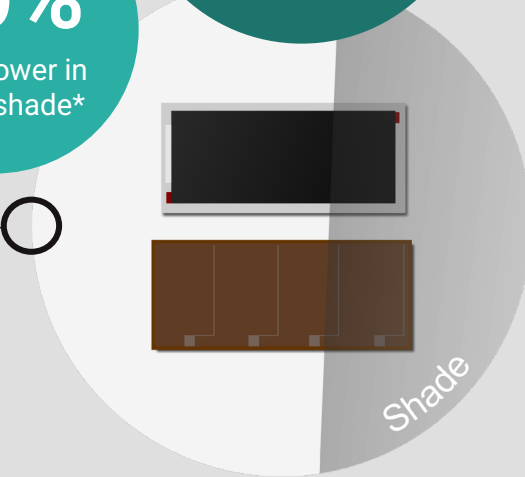
70%
More power in partial shade*

>3x
Higher Energy Density*

Works when partially (25%) covered

HD-PV: **75%** harvesting capacity

PV: **0%** harvesting capacity



Optimized for **Indoor** light harvesting

High performance Single Cell PV panel
UEI in exclusive partnership

* Compared to commonly used 4-Cell PV panels



Eterna XLR

Energy Harvesting

Never change batteries again*

- Ambient-Aware High-Efficiency Backlight
- Designed for Refurbishment and Recycling



Estimated # of batteries replaced in 7 years**

Eterna XLR HD
(HD PV Cell)

0

Eterna XLR
(Standard PV Cell)

2

Conventional
Remote

14

** Compared to conventional IR/BLE/Voice/BL remotes, under standard UEI use case
*** IR/BLE/Voice remote, estimated under standard UEI use case



Performance
Boost for Voice
& Backlight

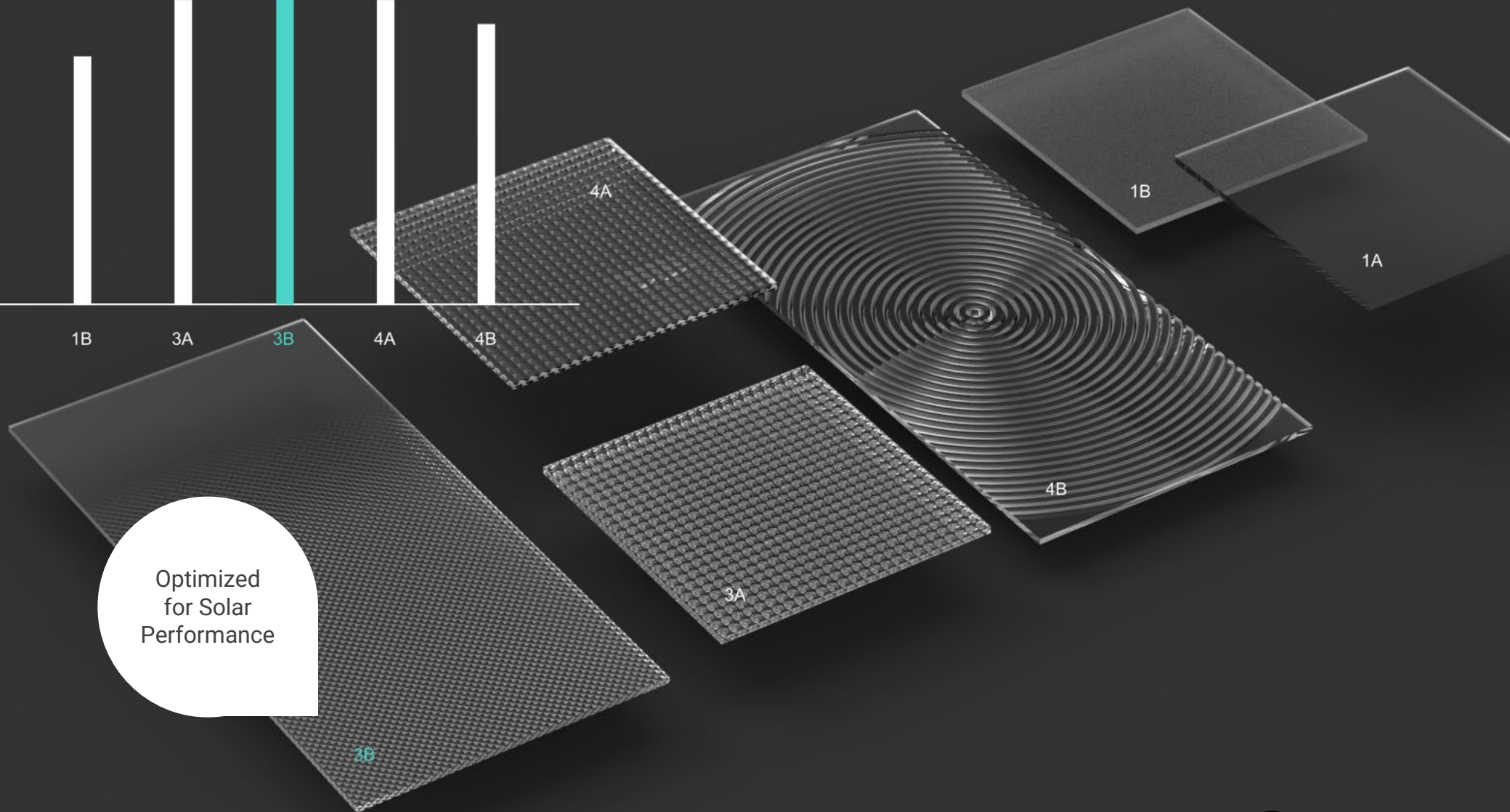
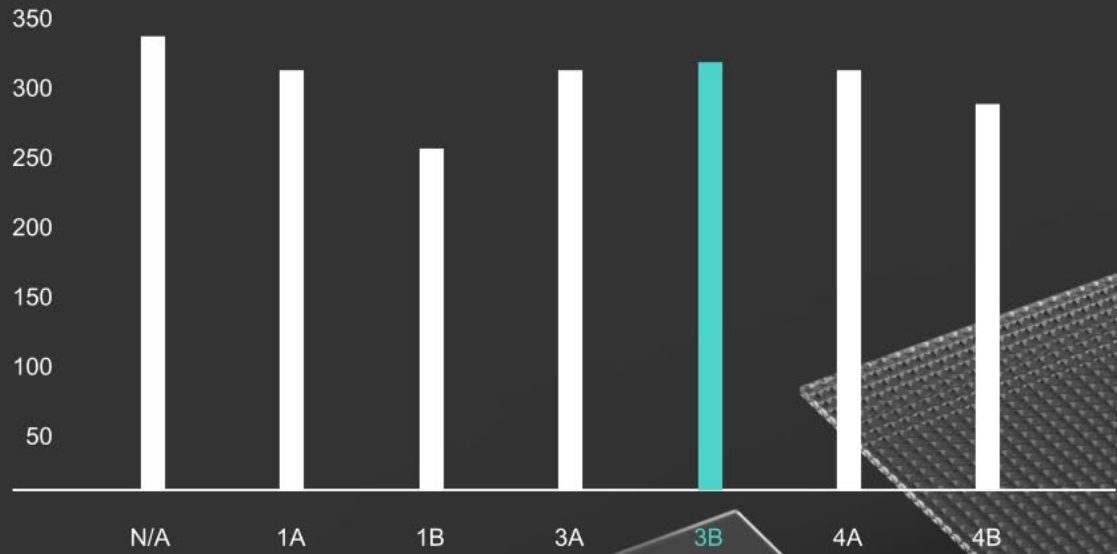


Indoor Solar



Extreme Low
Power IC





Optimized
for Solar
Performance

ETERNA XLR

SOLAR-POWERED REMOTE CONTROL PLATFORM



NOTE: Industrial Design is Work-In-Progress

RECYCLED PLASTICS



53.6
million

tons of e-waste
each year

World Economic Forum
Survey 2020

17%

is eventually recycled

IBM Institute for Business Value
2020

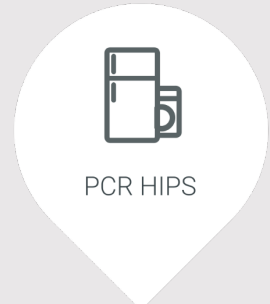


Post-Consumer
Recycled
ABS





PCR ABS



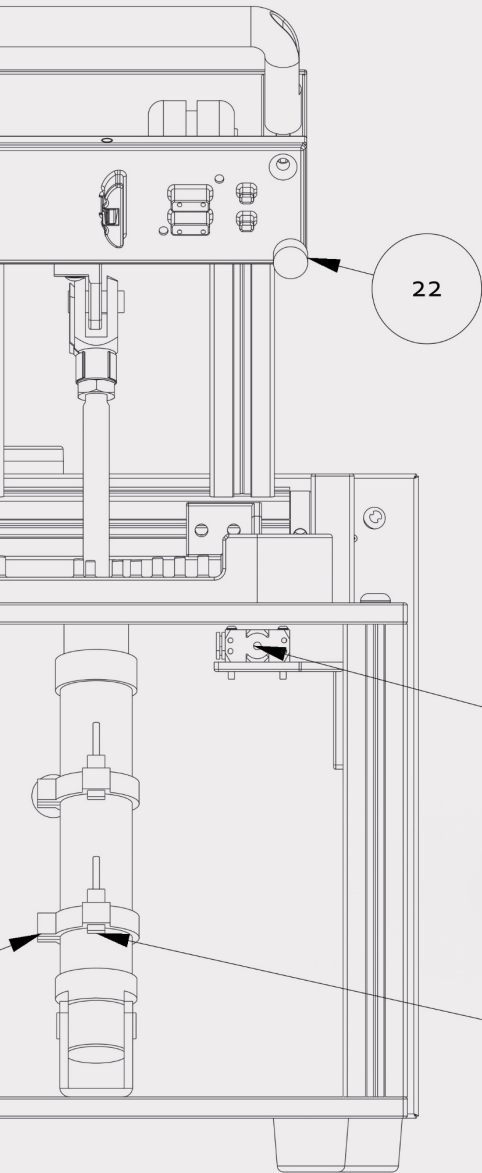
PCR HIPS



OCEAN PET

Specifications	✓	✓	✓
Availability	✓	✓	✓
Trial injection molding	✓	✓	✗
Product testing	✓	✗	○
Mass trials	○	○	○





22

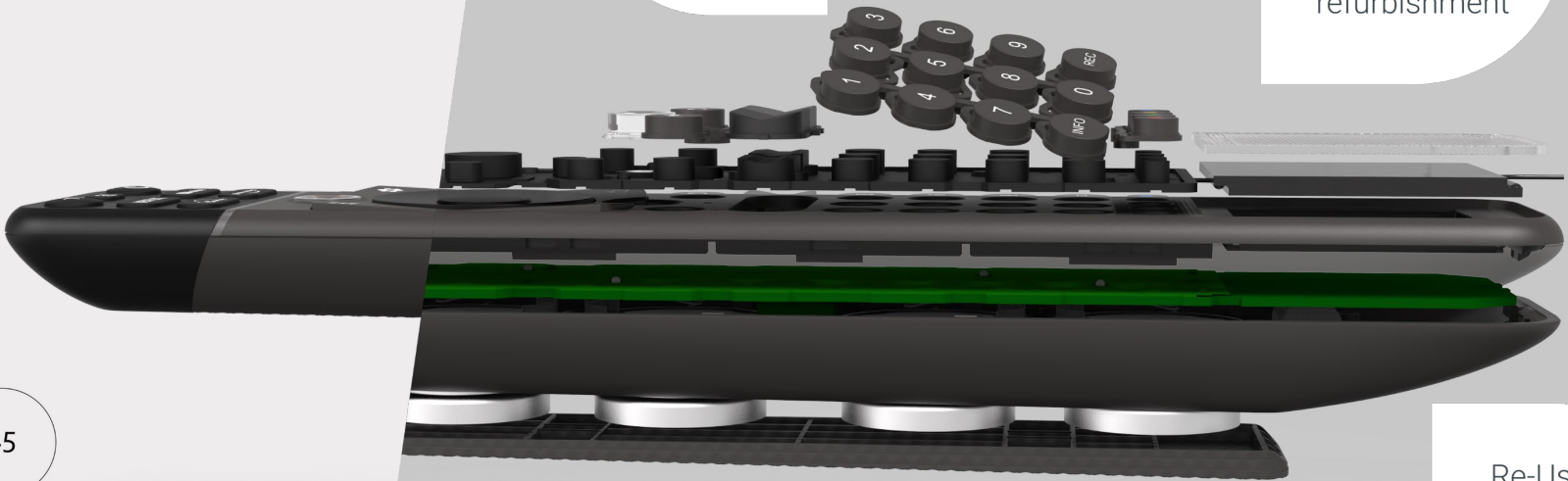
15

21

Key webs


Designed for refurbishment

Re-Use
&
Re-Cycle









Recycle, Recharge
and re-use

Use ambient light and
WiFi signals to recharge
your remote, again and
again and again



UE962 Xtreme Low power SOC
with built-in Energy harvesting



Thank you!
Questions?

