iCE40 UltraLite
The Low-Cost Solution for Mobile Applications

Lowest Power. Most Capable. Tiny Footprint

- 60% less power consumption than our previous family
- 5x more I/O than the competition
- 60% smaller package size than the competition
- 36% less power needed with more LUT density than competition

Unsurpassed integration of hardened IP in an incredibly small package size
Reduced chip size and power consumption with integrated IP, and RGB current sinks in one device

iCE40 UltraLite
The most capable, customizable device for performing common functions related to:

- User Identification
- Pedometer
- LED Breathing Effect

Flexibility to Differentiate
Programmability speeds customization of awesome functions like:

- IR Remote
- High current LED effects
- User Defined Features

Upgrade, Innovate. Reduce Cost:
- Integrated hard IP & programmable logic enable rapid customization
- Three 25mA current sinks for RGB LED drivers
- Up to 500mA constant current sinks for high brightness LEDs
- I2C interface capability with integrated non-volatile memory
- Tiny package reduces board area, complexity and cost
- Production-ready proven solutions for Smart Remote, Barcode, Breathing LED driver etc.

iCE40 UltraLite FPGAs for Mobile Devices
Tiny, energy efficient and cost effective. The world’s most integrated mobile FPGA.

Unsurpassed integration accelerates customization, reduces design cost
Expand innovation, create exciting new applications and minimize BOM. 1k LUT and key hardened IP for IR remote, barcode scanner LED effects, pedometer and more.

Reduces power consumption without compromising performance
Extend battery life to compete, high functionality mobile platforms. The iCE40 UltraLite is the lowest power FPGA device on the market today consuming 47% less power than the nearest competition.

Super tiny 1.4mm x 1.4mm x .46mm TQFP
Space constraints are no barrier to SOC by innovation and customization. Add the functionality in the world’s smallest FPGA.

Need More Information?
Product Information: latticesemi.com/ice40ultralite