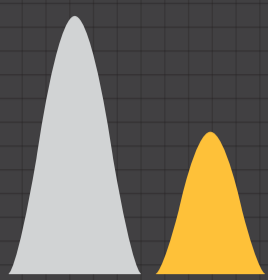


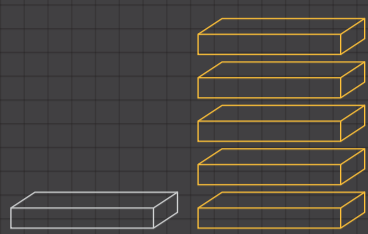
iCE40 UltraLite™

The Low-Cost Solution for Mobile Applications

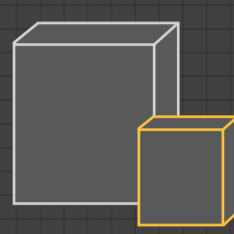
Lowest Power, Most Capable, Tiny Footprint



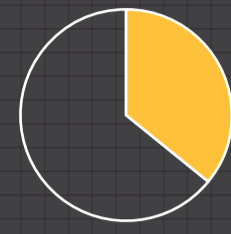
less power consumption than our previous family



more IP than the competition



smaller package size than the competition



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 IR and RGB current sinks in one device

iCE40 UltraLite

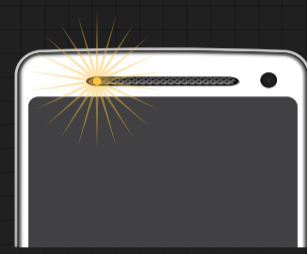
The most capable, customizable device for performing common functions related to:



User Identification



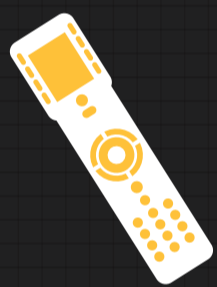
Pedometer



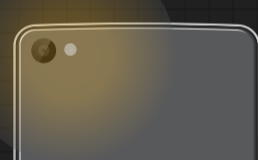
LED Breathing Effect

Flexibility to Differentiate

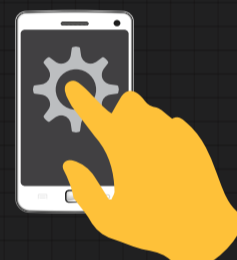
Programmability speeds customization of awesome functions like:



IR Remote



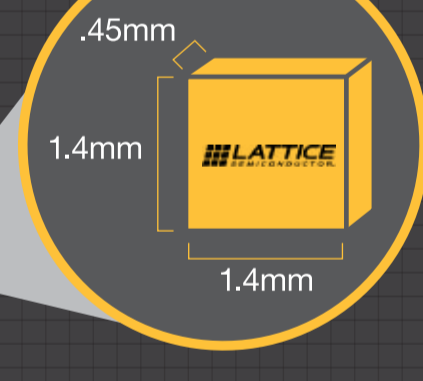
High current LED effects



User Defined Features

Upgrade. Innovate. Reduce Cost.

- ✓ Integrated hard IP & programmable logic enable rapid customization
- ✓ Three 24mA current sinks for RGB LED drivers
- ✓ Up to 500mA constant current sink for IR/high bright LEDs
- ✓ Instant-on 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, drives down cost

Expand innovation, create exciting customer experiences and minimize BOMs. 1K LUT and key hardened IP for IR remote, barcode emulator LED effect, pedometer and more.



Reduce power consumption without compromising performance

Extend battery life in compact, high functionality mobile platforms. The iCE40 UltraLite is the lowest power FPGA device on the market today, consuming 36% less power than the nearest competition.



Super tiny 1.4mm x 1.4mm x .45mm WLCSP

Space constraints are no barrier to flexibility, innovation and customization. All of this functionality in the world's smallest FPGA!

Need More Information?

Product Information: latticesemi.com/ice40ultraLite

