Introducing Lattice’s New iCE40 Ultra™ for Mobile Consumer Platforms

Consumer mobile hardware developers face an increased pressure to create devices that are smaller, lower cost and have longer battery life — and they need to hit the market immediately. Our latest addition to the iCE40 FPGA family empowers developers to create exciting new user experiences while delivering value and performance.

**More capable. Smaller footprint.**

- 5x more hardened IP than the competition
- 30% smaller package size than the competition
- 3x more LUT density than the 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.

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

- IR remote
- Barcodes
- Touch
- User identification

**Flexibility to differentiate.**

Programmability speeds customization of killer functions like:

- User stimulated colors
- Shake to wake
- Camera Flash
- Pedometer
- Breathing effects
- You define it!

**Upgrade. Innovate. Reduce Cost.**

- Integrated hard IP & programmable logic enable rapid customization
- Three 24mA current sinks for RGB LED drivers
- 500mA constant current sink for IR / high bright LEDs
- Instant on capability with integrated non-volatile memory
- Small packages to reduce board area, complexity and cost
- Production ready proven solutions for Smart Remote, Barcode, Breathing LED driver, etc.

Deliver killer features — fast

latticesemi.com/ice40ultra