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.





lower power than our previous family

more hardened IP than the competition

30%

smaller package size than the competition

more LUT density than the competition

Unsurpassed integration of hardened IP in an incredibly small package size

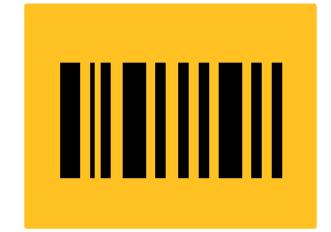
Reduced chip size and power consumption with integrated IR and RGB current sinks in one device. **2.06mm**



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







Barcodes



2.06mm

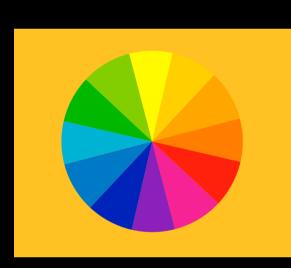
Touch



User identification

Flexibility to differentiate.

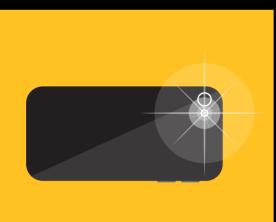
Programmability speeds customization of killer functions like:



User stimulated colors



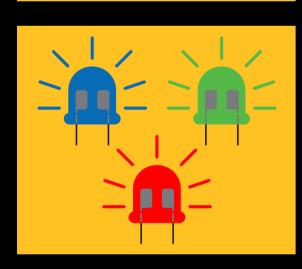
Shake to wake



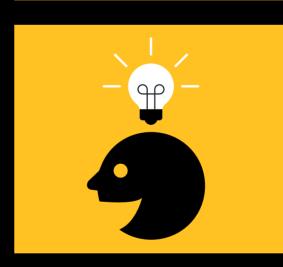
Camera Flash



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.

latticesemi.com/ice40ultra

Deliver killer features — fast

