

zTouch™ 3.0 Product Information

Version 1.2

zTouch™ 3.0 Touch Screen Product

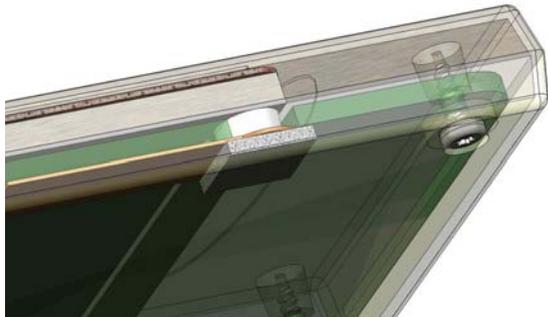
F-Origin is the leading supplier of force sensing touch screen and motion control user interface technologies. The zTouch™ 3.0 touch screen technology is developed to meet tomorrow's requirements and is offering a range of benefits:

- Extremely high design flexibility
- High durability
- High-level functionality
- Optimal light throughput
- Cost effective solution

The zTouch™ touch screen technology uses force to determine a user's touch screen input. The lens is mechanically designed to relay the force of the touch to the underlying force sensors. The sensor output is filtered and compensated; the calculated position and force level is provided to the overlaying system by the zTouch™ 3.0 software and its specialized compensation and calibration algorithms.

Mechanical Solution

The mechanical implementation is highly flexible with virtually no impact on product thickness. The touch screen can be implemented as the LCD module itself or as a separate lens above the LCD, fully integrated with the product design. The mechanical design with no membrane or special lens material has great advantages vs. competing technologies and is offering up to 30% better light throughput and long durability.



FFS Sensor™ integrated into 6mm thick display housing of a commercial flip phone



The User Interface in today's products are quickly getting more and more advanced, where key, touch areas, gestures and motion are being integrated. zTouch™ is offering increased functionality for these next generation products:

- AnyTouch™ technology. Input by using anything (finger, glove, stylus, pen, etc.)
- 3-D input to support a new generation of applications
- Handwriting recognition & variable sensitivity
- Supports haptic feedback to increase typing speed and accuracy
- Software controlled activation level

Cost

The zTouch™ enables a highly competitive product cost. The electrical design doesn't require complex components or add-on processing units, which will result in a cost efficient solution. The zTouch™ software does not only enable the advanced touch screen functionality, but it is also flexible in terms of implementation and OS compatibility.

Product offering

F-Origin provides the complete zTouch™ 3.0 solution including software, SDK, FFS Sensors™, reference design and optional product integration and development services.

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