

Improve User Interaction and Device Design in SmartWatches

TouchSense® Haptic Enabling Kit for Wearable OEMs

TouchSense Haptic Enabling Kit for Wearables OEMs provides ability to add tactile effects to enhance device design, as well as increase user value through instinctive alerts that converts notifications into meaningful messages.

INCREASE USER VALUE WITH A MORE INTUITIVE DESIGN

TouchSense Haptic Enabling Kit for Wearable OEMs offers a solution for effectively using haptics in wearable devices. With proprietary actuator control techniques, and a framework for turning silent notifications into intuitive and meaningful tactile messages, TS Enabling Kit is an end-to-end offering that enables creation, delivery and the high-quality playback of tactile effects in wearable devices.

In addition, Immersion provides integration services, hardware selections guidelines, custom effect design support, and reference guides to help wearable device makers implement best-in-class tactile experiences.



Instinctive tactile notifications and high-fidelity haptics in apps and UI can differentiate user experience and enhance brand perception.

HAPTIC IMPLEMENTATION FOR WEARABLES

CREATE



Tactile effects are designed with a haptic studio design tool for the specific application. Effects are exported as .ivt files.

DELIVER



The encoded haptic files (.ivt) are implemented in apps on device.

PLAY



Immersion TouchSense software on the device controls the actuator to render the haptic effects.

PRODUCT FEATURES

- Intuitive tactile communication solution for wearable notifications
- Easy to use API interface to facilitate implementation of haptics
- Flexible and efficient design authoring tool chain enabling creative professionals to design custom tactile effects
- User-validated guidelines for creating high quality haptic use cases

BENEFITS

- Optimizes actuator performance ensuring quality, consistency, and optimized power consumption
- Provides a branded and differentiated user experience
- Creates best-in-class touch confirmation for UI interactions

SPECIFICATIONS

- Software version: R1.0
- Device architecture: ARM and X-86 architecture
- Hardware actuator support: LRA and ERM
- Multiple actuator support
- Toolkit components:
 - System level embedded haptic playback software
 - Instinctive Alerts Framework: Intuitive custom notifications for Wearables communication
 - Integration tools and guidelines
 - Haptic Studio and Haptic Monitor: haptic effect design/authoring tools suite
 - High Value Use Cases: Compelling implementations and haptics design guidelines for apps and UI elements