IQS572

The IQS572 is a projected capacitive touch and proximity trackpad/touchscreen controller implementation on the IQS5XX platform. The IQS572 features best in class sensitivity, signal-to-noise ratio and automatic tuning of electrodes. Low power proximity detection allows extreme low power operation. The IQS572-BL contains a bootloader to enable loading of the B000 firmware. IQS572-A000 devices can be upgraded to the IQS572-B000 firmware via the bootloader. The IQS572-B000 is a firmware upgrade from the IQS572-A000.

OVERVIEW

Features:

- Proximity, touch and snap on each channel
- Multi-touch support up to 5 fingers
- Single and multi-finger gestures
- 2048 x 1792 max resolution
- 9 x 8 rows and columns
- Scale, orientation and electrode layout selection
- I^{2}C communications interface
- ATI: automatic tuning for optimum sensitivity
- Event and streaming modes
- Internal voltage regulator and reference capacitor
- On-chip noise detection and suppression
- 1 Finger gestures
    - Forward swipe - Next
    - Backward swipe - Previous
    - Upward swipe - Volume Increase
    - Downward swipe - Volume Decrease
    - Tap - Play/Pause
    - Press and hold
- 2 Finger gestures
    - Pinch & Zoom
    - 2 Finger scroll
    - 2 Finger pan
    - 2 Finger tap

- 3 Active and 2 low power modes
- Proximity and pin wake up from low power
- Supply Voltage 1.65V to 3.6V
- Proximity low power operation (<10uA)

Applications:

- Compact Capacitive Keyboards
- Remote Control Trackpads
- Appliances
- Navigation devices
- Kiosks and POS terminals
- E-readers
- Consumer electronics