AD1008

High Sensitivity 8-Ch Capacitive Touch Sensor

adc
advanced digital chips inc.
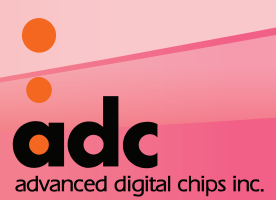
Description

AD1008 is a high sensitivity 8 channel capacitive touch sensor with auto calibration function. It includes 2 oscillators and frequency shift detector. It has very strong immunity against external noise or noisy environment with high performance analog circuit and adaptive digital algorithm. AD1008 enables effective power consumption by using appropriate detect speed mode or auto detect mode.
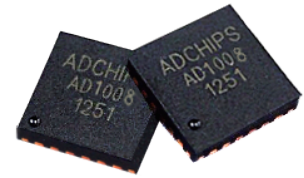
Features

● Single/Multi Touch mode
● Operation mode selectable
  - Detect speed mode : Active mode / Low power mode / Sleep mode
  - Auto detect mode : Low power mode ↔ Active mode / Sleep mode ↔ Active mode
● Auto digital calibration
● Enable individual adjustment each channel sensitivity: 1of 8 Mode
● Low frequency harmonic noise elimination
● Fixed frequency oscillation at any supply voltage
● 4 Modes for Direct LED Display
● 4 Levels for LED Dimming
● Parallel, 3-Line/I²C Interface auto detectable
● 1 Custom bit at I²C Bus
● I/O Interface: Parallel / I²C / Aout
● LDO(Low Drop Output)
● POR(Power On Reset)
● Enable External Reset control
● Ultra-Low Power Consumption
● Supply Voltage : 1.6V ~ 3.6V
● Package : 24-QFN

Application Area

· Mobile Application

· Mini/Micro Audio System

· Membrane Switch replacement

· Sealed Control Panel, Keypad

· Flat TV

· Monitor

· Home Appliance

Advanced Digital Chips Inc.