Resistive Touch Screen 4-Wire 12-Pin DSBGA T/R

Manufacturer:	Texas Instruments, Inc
Package/Case:	DSBGA12
Product Type:	Drivers
RoHS:	RoHS Compliant/Lead free RoHS
Lifecycle:	Active
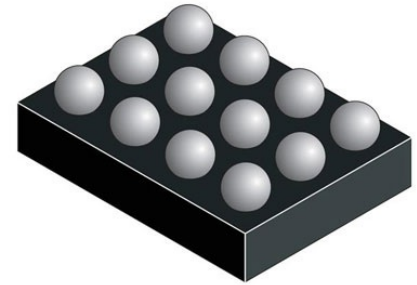
Images are for reference only

Inquiry

General Description

The TSC2007 is a very low-power touch screen controller designed to work with power-sensitive, handheld applications that are based on an advanced low-voltage processor. It works with a supply voltage as low as 1.2V, which can be supplied by a single-cell battery. It contains a complete, ultra-low power, 12-bit, analog-to-digital (A/D)resistive touch screen converter, including drivers and the control logic to measure touch pressure.

In addition to these standard features, the TSC2007 offers preprocessing of the touch screen measurements to reduce bus loading, thus reducing the consumption of host processor resources that can then be redirected to more critical functions.

The TSC2007 supports an I2C serial bus and data transmission protocol in all three defined modes: standard, fast, and high-speed. It offers programmable resolution of 8 or 12 bits to accommodate different screen sizes and performance needs.

The TSC2007 is available in a 12-lead,(1.555 ±0.055mm) x(2.055 ±0.055mm), 3 x 4 array, wafer chip-scale package (WCSP), and a 16-pin, TSSOP package. The TSC2007 is characterized for the -40°C to +85°C industrial temperature range.

Key Features

4-Wire Touch Screen Interface

Single 1.2V to 3.6V Supply/Reference

Ratiometric Conversion

Effective Throughput Rate:

Up to 20kHz (8-Bit) or 10kHz (12-Bit)

Preprocessing to Reduce Bus Activity

I2C Interface Supports:

Standard, Fast, and High-Speed Modes

Simple, Command-Based User Interface:

TSC2003 Compatible

8- or 12-Bit Resolution

On-Chip Temperature Measurement

Touch Pressure Measurement

Digital Buffered PENIRQ

On-Chip, Programmable PENIRQ Pull-Up

Auto Power-Down Control

Low Power:

32.24µA at 1.2V, Fast Mode, 8.2kHz Eq Rate

39.31µA at 1.8V, Fast Mode, 8.2kHz Eq Rate

53.32µA at 2.7V, Fast Mode, 8.2kHz Eq Rate

Enhanced ESD Protection:

1.5 x 2 WCSP-12 and 5 x 6.4 TSSOP-16 Packages

APPLICATIONS

Cellular Phones

PDA, GPS, and Media Players

Portable Instruments

Point-of-Sale Terminals

Multiscreen Touch Control Systems

Recommended For You

AVAQ SEMICONDUCTOR CO., LIMITED   <u>**Email: sales@avaq.com**</u>

TSC2007IPWR	TSC2046IPWR	TSC2013QRSARQ1
Texas Instruments, Inc	Texas Instruments, Inc	Texas Instruments, Inc
TSSOP16	TSSOP16	QFN16
TSC2046IPW	TSC2004IRTJR	TSC2046IRGVR
Texas Instruments, Inc	Texas Instruments, Inc	Texas Instruments, Inc
TSSOP16	QFN20	QFN16
TSC2014IYZGR	TSC2003IPWR	TSC2007IPW
Texas Instruments, Inc	Texas Instruments, Inc	Texas Instruments, Inc
DSBGA	TSSOP16	TSSOP16
TSC2004IYZKR	TSC2046EIPWR	TSC2003IPW
Texas Instruments, Inc	Texas Instruments, Inc	Texas Instruments, Inc
BGA	TSSOP16	TSSOP16
TSC2013QPWRQ1	TSC2046EIPW	TSC2200IPW
Texas Instruments, Inc	Texas Instruments, Inc	Texas Instruments, Inc
TSSOP-16	TSSOP-16	TSSOP-28