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Status: **Not Recommended for New Designs**

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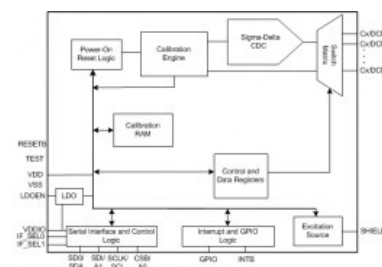
LDS6107

13 Channel Capacitive Touch Controller

The LDS6107 PureTouch® capacitive touch sensor IC is a highly accurate solution for capacitive touch sensor applications, supporting a wide variety of possible touch input types including buttons, scroll wheels, and sliders. The device contains 13 capacitive sensor input pins, 5 of which may be optionally configurable as Direct Communication Mode (DCM) outputs to emulate mechanical button operation.

Features

- 13 touch sensor channels
- 2ms update rate per active sensor
- Built-in Slider/Scroll Support
- Configurable hysteresis and debounce
- 1.65-5.5v supply voltage
- <125uW (full power), <50uW (low power)
- I2C, SPI, SMBus serial I/F options with VDDIO
- DCM Outputs
- TQFN and SSOP packages available



Product Specification

Touch Voltage (V)	Touch Sensors (#)	Scan Rate (ms)	Auto Calibration	Hyst / Debounce Config	Enh Prox Sense	field__power_on_touch_detect_yn	Interface	I/O Voltage (V)	GPIOs (#)	DCM Outputs (#)	Pkg. Type
1.65 - 5.50	13	2.00 - 26.00	Y	Y			SPI, SMBUS, I2C	1.65 - 5.50	1	5	SSOP, VFQFN

Product Options

Orderable Part ID	Pkg. Code	Pkg. Type	Lead Count (#)	Temp. Grade	Pb (Lead) Free	Carrier Type	Sample & Buy
LDS6107NQG18	NQG28	VFQFPN	28	I	Yes	Reel	Check Availability
LDS6107PYG18	PYG28	SSOP	28	I	Yes	Reel	Check Availability

Technical Documentation

	Title	Type	Format	File Size	Date
Datasheets & Errata					
	LDS6100 Family Datasheet (Rev 0.7 April 2012)	Datasheet	PDF	711 KB	Apr 17, 2012
Apps Notes & White Papers					
	LDS610x Family AN2 Ref Code and Initialization	Application Note	PDF	1.77 MB	Dec 12, 2012
PCNs & PDNs					
	PCN#: TB1503-01R1 Carrier Tape Standardization for Selective Packages	Product Change Notice	PDF	333 KB	Oct 22, 2015
	PCN#: TB1503-01 Carrier Tape Standardization for Selective Packages	Product Change Notice	PDF	291 KB	Jul 21, 2015
	PCN#: A1309-03 Additional Assembly Sources	Product Change Notice	PDF	398 KB	Oct 21, 2013
Other					
	IDT Pure Touch Product Selector Guide	Misc	PDF	19 KB	Jan 27, 2011
	LDS6107 Register Document (Rev 0.2 - Apr 2010)	Report	PDF	139 KB	Apr 5, 2010
	IDT Touch 6100/6120 Family flyer	Flyer	PDF	1022 KB	Dec 18, 2009

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