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 Status: **Obsolete**

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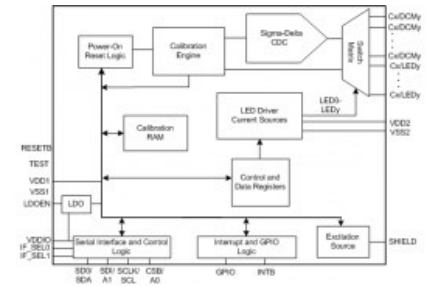
LDS6126

11 Channel Capacitive Touch Controller with Integrated LED Driver

The LDS6126 PureTouch® capacitive touch sensor IC is a highly integrated solution that includes an integrated keypad LED driver with integrated visual effects. The device contains 11 capacitive sensor input pins, 6 of which may also be optionally configured for use as keypad LED drivers, with the other 5 optionally configurable as Direct Communication Mode (DCM) outputs to emulate mechanical button operation.

Features

- 11 touch sensor channels
- 2ms update rate per active sensor
- Built-in Slider/Scroll Support
- Configurable hysteresis and debounce
- Integrated LED drivers with configurable visual effects
- 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	Interface	I/O Voltage (V)	GPIOs (#)	DCM Outputs (#)	Pkg. Type	field_led_effects
1.65 - 5.50	11	2.00 - 26.00	Y	Y	SPI, SMBUS, I2C	1.65 - 5.50	1	5	SSOP, VFQFPN	

Product Options

Orderable Part ID	Pkg. Code	Pkg. Type	Lead Count (#)	Temp. Grade	Pb (Lead) Free	Carrier Type	Sample & Buy
LDS6126NQG18	NQG28	VFQFPN	28	I	Yes	Reel	Check Availability
LDS6126PYG18	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					
	PDN# : PA-12-02R1 PRODUCT DISCONTINUANCE NOTICE	Product Discontinuation Notice	PDF	56 KB	Jul 25, 2013
Other					
	IDT Pure Touch Product Selector Guide	Misc	PDF	19 KB	Jan 27, 2011
	IDT Touch 6100/6120 Family flyer	Flyer	PDF	1022 KB	Dec 18, 2009

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