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Status: **Not Recommended for New Designs**

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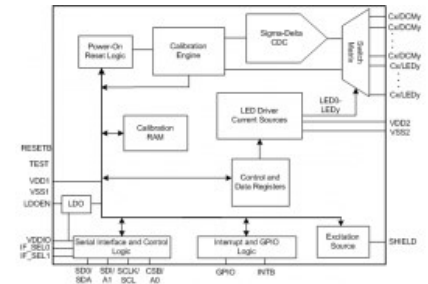
LDS6120

20 Channel Capacitive Touch Controller with Integrated LED Driver

The LDS6120 PureTouch® capacitive touch sensor IC is a highly integrated solution that includes an integrated keypad LED driver with integrated visual effects. The device contains 20 capacitive sensor input pins, 10 of which may also be optionally configured for use as keypad LED drivers, with the other 10 optionally configurable as Direct Communication Mode (DCM) outputs to emulate mechanical button operation.

Features

- 20 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	20	2.00 - 40.00	Y	Y	SPI, SMBUS, I2C	1.65 - 5.50	1	10	SSOP, VFQFPN	

Product Options

Orderable Part ID	Pkg. Code	Pkg. Type	Lead Count (#)	Temp. Grade	Pb (Lead) Free	Carrier Type	Sample & Buy
LDS6120NQG18	NQG40	VFQFPN	40	I	Yes	Reel	Check Availability
LDS6120PVG18	PVG48	SSOP	48	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# : A1504-04 Assembly Transfer from Amkor Philippines to OSE Taiwan	Product Change Notice	PDF	484 KB	Jul 2, 2015
	PCN# : A1304-01 Alternate Assembly for LDS6120PVG1, LDS6120PVG18	Product Change Notice	PDF	84 KB	Apr 28, 2013
Other					
	IDT Pure Touch Product Selector Guide	Misc	PDF	19 KB	Jan 27, 2011

	Title	Type	Format	File Size	Date ▾
	LDS6100-6120 Register Document (Rev 0.3 - Apr 2010)	Report	PDF	238 KB	Apr 5, 2010
	IDT Touch 6100/6120 Family flyer	Flyer	PDF	1022 KB	Dec 18, 2009

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