



# PureTouch® Selection Guide

[www.IDT.com/go/Touch](http://www.IDT.com/go/Touch)

Part No.	Description	Touch Sensors	DCM Outputs	LED Driver	Built-in LED Effects		Slider/ Scroll	Full hysteresis/debounce config	Power On Touch Detection	I/O Voltage	Touch Voltage	Package	Interface	
					Dimming	Blink/Heartbeat								
<b>Touch Controller</b>														
LDS6100	20 Channel Touch Controller	Up to 20	Up to 10				Built-in	Yes		1.65-5.5V	1.65-5.5V	VFQFPN 40	I2C, SMBus, SPI	
LDS6108	16 Channel Touch Controller	Up to 16	Up to 8				Built-in	Yes		1.65-5.5V	1.65-5.5V	VFQFPN 40	I2C, SMBus, SPI	
LDS6000	15 Channel Touch Controller	Up to 15					w/ host-side firmware			1.65-3.6V	1.65-1.95V	SSOP 28, VFQFPN 28	SPI or I2C	
LDS6107	13 Channel Touch Controller	Up to 13	Up to 5				Built-in	Yes		1.65-5.5V	1.65-5.5V	SSOP 28, VFQFPN 28	I2C, SMBus, SPI	
LDS6005	10 Channel Touch Controller	Up to 10					w/ host-side firmware			1.65-3.6V	1.65-1.95V	SSOP 28, VFQFPN 28	SPI or I2C	
LDS6104	8 Channel Touch Controller	Up to 8	Up to 4				Built-in	Yes		1.65-5.5V	1.65-5.5V	SSOP 28, VFQFPN 28	I2C, SMBus, SPI	
LDS6204	8 Channel Touch Controller	Up to 8					Built-in	Yes	Yes	1.65-5.5V	1.65-5.5V	TOFN 20, SOIC 20	I2C	
LDS6003	6 Channel Touch Controller	Up to 6					w/ host-side firmware			1.65-3.6V	1.65-1.95V	SSOP 28, VFQFPN 28	SPI or I2C	
LDS6203	6 Channel Touch Controller	Up to 6					Built-in	Yes	Yes	1.65-5.5V	1.65-5.5V	TOFN 20, SOIC 20	I2C	
LDS6202	4 Channel Touch Controller	Up to 4					Built-in	Yes	Yes	1.65-5.5V	1.65-5.5V	TOFN 16, SOIC 16	I2C	
LDS6201	2 Channel Touch Controller	Up to 2					Built-in	Yes	Yes	1.65-5.5V	1.65-5.5V	TOFN 16, SOIC 16	I2C	
<b>Touch Controller with Integrated Haptic Driver</b>														
LDS6010	15 Channel Touch Controller with Haptic Driver for Portable Applications	Up to 15					w/ host-side firmware			1.65-3.6V	1.65V-1.95V	VFQFPN 40	SPI or I2C	
LDS6018	15 Channel Touch Controller with Haptic Driver for Non-Portable Applications	Up to 15					w/ host-side firmware			1.65-3.6V	1.65-1.95V	VFQFPN 40	SPI or I2C	
<b>Touch Controller with Integrated LED Driver</b>														
LDS6120	20 Channel Touch Controller with Integrated LED Driver	Up to 20	Up to 10	Up to 10	Yes	Yes	Built-in	Yes		1.65-5.5V	1.65-5.5V	VFQFPN 40	I2C, SMBus, SPI	
LDS6128	16 Channel Touch Controller with Integrated LED Driver	Up to 16	Up to 8	Up to 8	Yes	Yes	Built-in	Yes		1.65-5.5V	1.65-5.5V	VFQFPN 40	I2C, SMBus, SPI	
LDS6028	15 Channel Touch Controller with Integrated LED Driver	Up to 15		Up to 8	Yes		w/ host-side firmware			1.65-3.6V	1.65-1.95V	VFQFPN 40	SPI or I2C	
LDS6020	13 Channel Touch Controller with Integrated LED Driver	Up to 13		Up to 8	Yes		w/ host-side firmware			1.65-3.6V	1.65-1.95V	SSOP 28, VFQFPN 28	SPI or I2C	
LDS6126	11 Channel Touch Controller with Integrated LED Driver	Up to 11	Up to 5	Up to 6	Yes	Yes	Built-in	Yes		1.65-5.5V	1.65-5.5V	SSOP 28, VFQFPN 28	I2C, SMBus, SPI	
LDS6025	10 Channel Touch Controller with Integrated LED Driver	Up to 10		Up to 5	Yes		w/ host-side firmware			1.65-3.6V	1.65-1.95V	SSOP 28	SPI or I2C	
LDS6124	8 Channel Touch Controller with Integrated LED Driver	Up to 8	Up to 4	Up to 4	Yes	Yes	Built-in	Yes		1.65-5.5V	1.65-5.5V	SSOP 28, VFQFPN 28	I2C, SMBus, SPI	
LDS6023	6 Channel Touch Controller with Integrated LED Driver	Up to 6		Up to 3	Yes		w/ host-side firmware			1.65-3.6V	1.65-1.95V	SSOP 28, VFQFPN 28	SPI or I2C	
<b>Touch Controller with Integrated LED Driver and Haptic Driver</b>														
LDS6040	15 Channel Touch Controller with Integrated LED Driver and Haptic Driver for Portable Applications	Up to 15		Up to 8	Yes		w/ host-side firmware			1.65-3.6V	1.65-1.95V	VFQFPN 40	SPI or I2C	
LDS6048	15 Channel Touch Controller with Integrated LED Driver and Haptic Driver for Non-Portable Applications	Up to 15		Up to 8	Yes		w/ host-side firmware			1.65-3.6V	1.65V-1.95V	VFQFPN 40	SPI or I2C	
<b>Full Resolution Multi-Touch Screen Controllers</b>								<b>Data Rate</b>	<b>No. of Touches</b>	<b>Screen Sizes Supported</b>	<b>Touch Voltage</b>	<b>PACKAGE</b>	<b>GPIO's</b>	<b>Interface</b>
LDS7000	30 Channel Full Resolution Multi-Touch Screen Controller	up to 30						8ms	up to 2	up to 5 inches	2.7-3.6V	VFQFPN 40	0	I2C
LDS7001	35 Channel Full Resolution Multi-Touch Screen Controller	up to 35						8ms	up to 2	up to 5 inches	2.7-3.6V	VFQFPN 48	1	SPI or I2C