



PureTouch® Selection Guide

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| 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 | | | | | | | | |
| Touch Controller | | | | | | | | | | | | | | |
| 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 | |
| Touch Controller with Integrated Haptic Driver | | | | | | | | | | | | | | |
| 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 | |
| Touch Controller with Integrated LED Driver | | | | | | | | | | | | | | |
| 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 | |
| Touch Controller with Integrated LED Driver and Haptic Driver | | | | | | | | | | | | | | |
| 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 | |
| Full Resolution Multi-Touch Screen Controllers | | | | | | | | Data Rate | No. of Touches | Screen Sizes Supported | Touch Voltage | PACKAGE | GPIO's | Interface |
| 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 |