

Infrared Touchscreen



Product Overview

General Touch's IR touchscreens is a touch frame which is usually installed in front of the display screen. The infrared touch technology depends on the interruption of an infrared light grid. The frame is integrated with a PCB board which contains a row of infrared LEDs and photoreceptor on opposite side.

Each of the infrared LED has a corresponding photo transistor set on the opposite end, creating a grid of invisible infrared light beams.

The bezel shields the electronics from the operating environment while allowing the IR beams to pass through. The controller sequentially pulses the LEDs to create a grid of IR light beams, A touch obstructs one or more of the beams which can identifies the X and Y coordinates.

This type of product have many benefits, such as unlimited stylus, high clarity and light transmission, no touch pressure required, Reliable and durable without drift-off. It can be used in gaming machines, kiosk and banking



Integrate Controller

SPECIFICATIONS

Physical Parameters	
Touchscreen Size Range	Available for 15" to 21.5"
Technology	Infrared
Touch Parameter	
Input Methods	Finger or any other opaque stylus
Touch Point	Single or four point
Resolution	32767×32767
Positional Accuracy	Standard deviation of error is not greater than 2mm
Touch Response Time	≤10ms
Electrical Parameter	
Input Voltage	5V±5% DC
Current	95mA, typical, supply must be capable of sourcing 200mA minimum
Power	Typical power consumption is 1W at 5V
Noise Parameter	Total noise and ripple requirement must be less than 50mV (p-p) for frequencies above 1 MHz
Interface	Combo USB
Environment Parameter	
Outdoor Anti-sunlight	More than 150Klux (only for four point product)
Temperature	Operating: -20°C to 70°C Storage: -40°C to 85°C
Humidity (non-condensing)	Operating: 10% to 85% RH, 40°C Storage: 10% to 90% RH, 40°C
MTBF	500,000 hours demonstrated
ESD	Per EN 61000-4-2: Contact discharge 4kV, Air discharge 8kV
EMC	CE, FCC Class A compatible
Warranty	1.5 years

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