



SAW Touchscreen

GeneralTouch's SAW touchscreens, based on proven surface acoustic wave (SAW) technology, use the beveled corners that virtually lower the height profile of the transducers and enable a smooth, flat integration. The thinner touchscreen allows slimmer bezel design and reduces possible damage to transducers during the integration process. Moreover, SAW touchscreens offer a longer product life and come with a five-year warranty. This type of product can be used in gaming machines, kiosk and banking machines.

MECHANICAL

Input Method	Finger or gloved hand (cloth, leather, or rubber) activation
Available Sizes	5.4" to 42"; other sizes can be custom-made

ELECTRICAL

Resolution	4096x4096
Touch Activation Force	80g or 120g
Controller	ST6001SU, ST6002SU, ST6201SU

OPTICAL

Light Transmission	90%
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ENVIRONMENTAL

Temperature	Operating Temperature: -20°C~ +50°C, Storage Temperature: -40°C~ +70°C
Relative Humidity	40°C at 90% RH, noncondensing
Altitude	3000m
Chemical Resistance	The touch active area of the touchscreen is resistant to chemicals that do not affect glass, such as: acetone, toluene, methyl ethyl ketone, isopropyl alcohol, methyl alcohol, ethyl acetate, ammonia-based glass cleaners, gasoline, kerosene, vinegar
Electrostatic Protection	Per EN 61000-4-2 meets: Contact discharge 4kV, air discharge 8KV
Agency Approvals	UL Systems incorporating GT touchscreens, controllers, and cables have been approved for CE marking. Systems incorporating GT touchscreens, controllers, and cables have been approved to FCC Class A compliance.

DURABILITY

Surface Durability	Surface durability is that of glass, Mohs' hardness rating of 7
Expected Life	No known wear-out mechanism, as there are no layers, coatings, or moving parts. Touchscreen technology has been operationally tested to more than 50 million touches in one location without failure, using a stylus similar to a finger.

Electrical

Supply Voltage Current	<ul style="list-style-type: none">• +12VDC, normal (+11V to +13VDC)• 95mA, typical at +12VDC, Average power consumption is 1.2W, typical• Supply must be capable of sourcing, 200mA, minimum• Total noise and ripple requirement must be less than 50mV (p-p) for frequencies above 1 MHz
Interface	<ul style="list-style-type: none">• EIA 232E (Serial RS-232), DCE configuration. 8 Data Bits, 1 Stop Bits, No Parity, Full Duplex. Baud rate: 9600• USB1.1 /USB2.0
Touch Resolution	4096×4096
Touch Activation Force	Touch force less than 80g (adjust allowed)
Conversion Time	Approximately 10.4ms per coordinate set (including transmitting time)
Reliability	MTBF is greater than 300,000 hours per MIL-HDBK-217-F2 using the parts stress calculation method for ground benign environment with an ambient temperature of 25°C

Environmental

Temperature	Operating Temperature Touchscreen: -20°C ~ +50°C, controller: 0°C ~ +65°C Storage Temperature Touchscreen: -40°C ~ +70°C, controller: -20°C ~ +85°C
Humidity	40°C at 90% RH, noncondensing
Operating Altitude	3000m
ESD	Per EN 61000-4-2 meets: Contact discharge 4kV, air discharge 8kV
Flammability	The printed circuit board substrate is rated with 94V0

Physical

Construction	Multi-layer surface-mount design with internal ground plane for EMI suppression
Dimensions	Total Width: 62mm Total Length: 85mm Total Height: 12mm (including connectors)
Agency Approvals	UL Systems incorporating GT touchscreens, controllers, and cables have been approved for CE marking. Systems incorporating GT touchscreens, controllers, and cables have been approved to FCC Class A compliance. Touchmonitors typically are FCC verified
ROHS Declaration	The touch system including ST6001SU controller, touchscreen and cable is ROHS compliant



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