



ST6002SU

Electrical	
Supply Voltage Current	<ul style="list-style-type: none"> • +5VDC, normal (+4.75V to +5.25VDC) • 90mA, typical at +5VDC, Average power consumption is 1.45W, 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.
ROHS Declaration	The touch system including ST6002SU controller, touchscreen and cable is ROHS compliant