

SC Series

Resistive Touch Screen Electronics

Product Highlights

- High performance feature set with state-of-the-art components.
- Fast and accurate touch response.
- Competitively priced controller offering.
- Provide USB, HID, and WHQL* compliance.
- Supports 4-, 5-, and 8-wire resistive touch screens.

A Flexible Electronics Solution

The MicroTouch™ SC Series Controllers provide the solution needed for long term viability. This enhanced voltage-driven series supports a full range of common resistive touch screens for LCD's, while offering tremendous flexibility and high performance at a cost-effective price. This solution offers standards compliance as well as configuration adaptability.

Making the Difference

3M supports the latest communication interfaces by providing both a Serial (RS232) Plug and Play interface and a Universal Serial Bus (USB) interface compliant with the USB Human Interface Device (HID) class. Available in a compact 1" x 2" format and supporting 4-, 5-, and 8-wire resistive touch screens, these controllers are designed for easy integration with LCD panels.

*Allows customers to apply for Microsoft™ Windows Hardware Qualification Laboratory (WHQL) certification.

SC Series Resistive Touch Screen Electronics

	ASIC Chipset	4-wire USB	4-wire Serial
Part Numbers	SCX-ASIC	SC401U	SC402S
Nominal Uncased Dimensions	NA	2.67" x 1.30" x 0.45" 67.8 x 33.0 x 11.4 mm	2.72" x 1.57" x 0.45" 69.1 x 39.9 x 11.4 mm
Communications Protocol	USB Rev 1.1, HID/Serial RS232 Plug and Play	USB Rev 1.1, HID	Serial RS232 Plug and Play
Touch Screen Support	4-, 5-, 8-wire Resistive	4-wire Resistive	4-wire Resistive
Host Cable Length (Pc99 Compatible)	NA	7319420: 96" Cable, Pearl, 5-pin Connector	7319630: 96" Cable, Teal, 8-pin Connector
Touch Screen Connection	Based on design	4-pin locking AMP	4-pin locking AMP
Mean Time Between Failure (MTBF)	400,000 hours	400,000 hours	400,000 hours
Electro-Static Discharge (ESD)	8KV contact, 20KV Air	8KV contact, 20KV Air	8KV contact, 20KV Air
Relative Humidity	0-95RH up to +36° C*	0-95% RH up to +36° C *	0-95% RH up to +36° C *
Storage Temperature	-20° to +75° C	-20° to +75° C	-20° to +75° C
Operating Temperature	0° to +65° C	0° to +65° C	0° to +65° C
Power Requirements (Typical)	Based on design I	USB Bus Powered 5Vdc ±10% 15 mA typical	5Vdc ±5% 16 mA typical 12Vdc ±5% 19 mA typical
Regulatory	CE, FCC, VCCI, RoHS, AS/NZS 3548, UL/cUL L	CE, FCC, VCCI, RoHS, AS/NZS 3548, UL/cUL	CE, FCC, VCCI, RoHS, AS/NZS 3548, UL/cUL
Drivers/Software	MT 7 (Windows 2000/XP), MicroTouch USB-HID Calibration Utility. TouchWare 5.6sr4 and later (Win 2000 XP, CE, Linux)	MT 7 (Windows 2000/XP), MicroTouch USB-HID Calibration Utility	TouchWare 5.6sr4 and later (Win 2000 XP, CE, Linux)
Warranty	1 Year	3 Years	3 Years

* Above +36° C, reference controller delivery specifications

5-wire USB	5-wire Serial	8-wire USB	8-wire Serial
SC501U	SC502S	SC801U	SC802S
2.85" x 1.30" x 0.45" 72.4 x 33.0 x 11.4 mm	2.77" x 1.57" x 0.45" 70.4 x 39.9 x 11.4 mm	2.75" x 1.30" x 0.45" 69.9 x 33.0 x 11.4 mm	2.82" x 1.57" x 0.45" 71.6 x 39.9 x 11.4 mm
USB Rev 1.1, HID	Serial RS232 Plug and Play	USB Rev 1.1, HID	Serial RS232 Plug and Play
5-wire Resistive	5-wire Resistive	8-wire Resistive	8-wire Resistive
7319420: 96" Cable, Pearl, 5-pin Connector	7319630: 96" Cable, Teal, 8-pin Connector	7319420 96" Cable, Pearl, 5-pin Connector	7319630 96" Cable, Teal, 8-pin Connector
5-pin locking AMP	5-pin locking AMP	8-pin locking AMP	8-pin locking AMP
400,000 hours	400,000 hours	400,000 hours	400,000 hours
8KV contact, 20KV Air	8KV contact, 20KV Air	8KV contact, 20KV Air	8KV contact, 20KV Air
0-95% RH up to +36° C *	0-95% RH up to +36° C *	0-95RH up to +36° C *	0-95% RH up to +36° C *
-20° to +75° C	-20° to +75° C	-20° to +75° C	-20° to +75° C
0° to +65° C	0°C to +65° C	0° to +65° C	0° to +65° C
USB Bus Powered 5Vdc ±10% 15 mA typical	5Vdc ±5% 16 mA typical 12Vdc ±5% 19 mA typical	USB Bus Powered 5V dc ±10% 15 mA typical	5Vdc ±5% 16 mA typical 12Vdc ±5% 19 mA typical
CE, FCC, VCCI, RoHS, AS/NZS 3548, UL/cUL	CE, FCC, VCCI, RoHS, AS/NZS 3548, UL/cUL	CE, FCC, VCCI, RoHS, AS/NZS 3548, UL/cUL	CE, FCC, VCCI, RoHS, AS/NZS 3548, UL/cUL
MT 7 (Windows 2000/XP), MicroTouch USB-HID Calibration Utility	TouchWare 5.6sr4 and later (Win 2000 XP, CE, Linux)	MT 7 (Windows 2000/XP), MicroTouch USB-HID Calibration Utility	TouchWare 5.6sr4 and later (Win 2000 XP, CE, Linux)
3 Years	3 Years	3 Years	3 Years

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