

# 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
<b>Part Numbers</b>	SCX-ASIC	SC401U	SC402S
<b>Nominal Uncased Dimensions</b>	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
<b>Communications Protocol</b>	USB Rev 1.1, HID/Serial RS232 Plug and Play	USB Rev 1.1, HID	Serial RS232 Plug and Play
<b>Touch Screen Support</b>	4-, 5-, 8-wire Resistive	4-wire Resistive	4-wire Resistive
<b>Host Cable Length (Pc99 Compatible)</b>	NA	7319420: 96" Cable, Pearl, 5-pin Connector	7319630: 96" Cable, Teal, 8-pin Connector
<b>Touch Screen Connection</b>	Based on design	4-pin locking AMP	4-pin locking AMP
<b>Mean Time Between Failure (MTBF)</b>	400,000 hours	400,000 hours	400,000 hours
<b>Electro-Static Discharge (ESD)</b>	8KV contact, 20KV Air	8KV contact, 20KV Air	8KV contact, 20KV Air
<b>Relative Humidity</b>	0-95RH up to +36° C*	0-95% RH up to +36° C *	0-95% RH up to +36° C *
<b>Storage Temperature</b>	-20° to +75° C	-20° to +75° C	-20° to +75° C
<b>Operating Temperature</b>	0° to +65° C	0° to +65° C	0° to +65° C
<b>Power Requirements (Typical)</b>	Based on design I	USB Bus Powered 5Vdc ±10% 15 mA typical	5Vdc ±5% 16 mA typical 12Vdc ±5% 19 mA typical
<b>Regulatory</b>	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
<b>Drivers/Software</b>	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)
<b>Warranty</b>	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° 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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For more information  
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visit [3M.com/touch](http://3M.com/touch) or  
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- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
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- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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