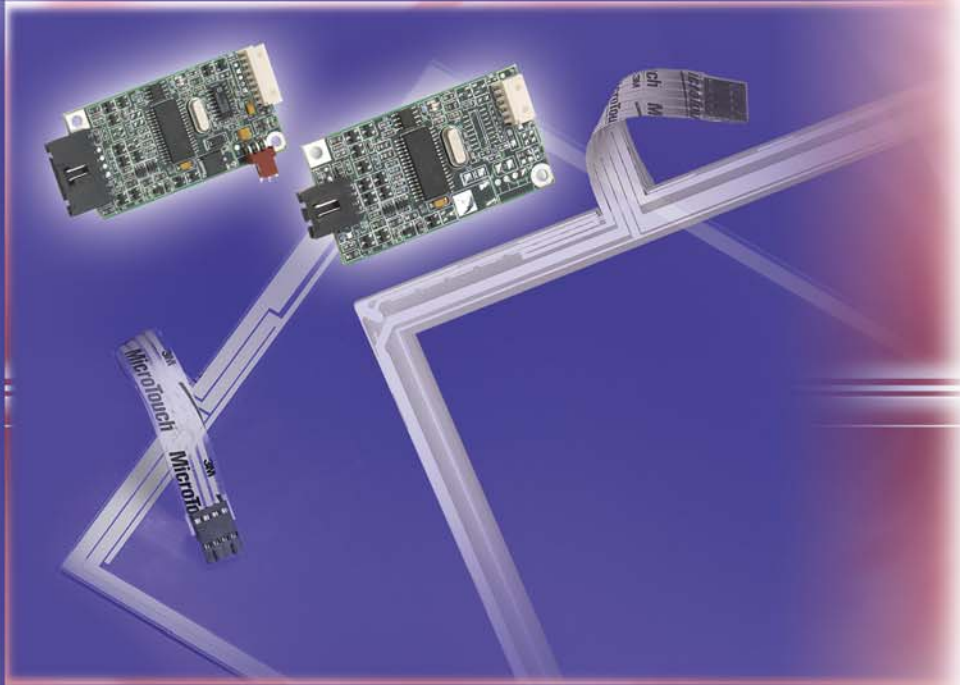
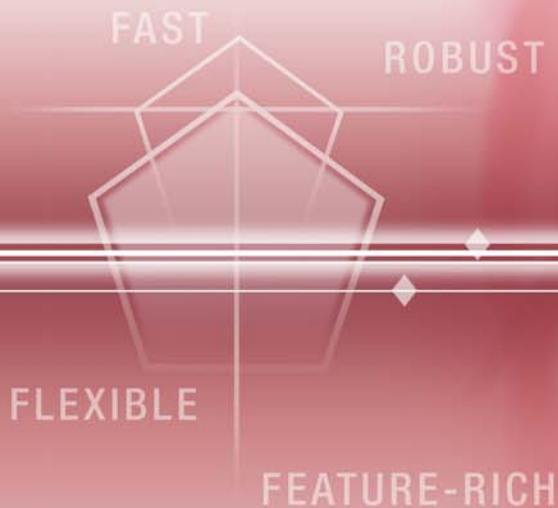




SC Controllers



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 MicroTouch™ 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 3M's full range of resistive touch screens for LCD's, while offering tremendous flexibility and high performance at a cost-effective price. A common board size provides resistive and capacitive designs; a solution that 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.

In order to provide integration design flexibility for customers, the new SC series of resistive controllers maintain the same form and fit as the newest MicroTouch™ EX II controllers from 3M. Available in a compact 1" x 2" format, and supporting 4-, 5-, and 8-wire resistive touch screens as well as the specialty resistive products, these controllers are designed for easy integration onto LCD panels.

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

ROBUST

FLEXIBLE

FAST

FEATURE-RICH



**3M Touch Systems
3M Optical Systems Division**

300 Griffin Brook Park Drive
Methuen, MA 01844
U.S.A.
1-866-407-6666
www.3Mtouch.com

Worldwide Manufacturing Plants

Methuen, Massachusetts
Milwaukee, Wisconsin
Vancouver, BC Canada

**For more information
on 3M touch products,
visit 3Mtouch.com or
call toll-free 1-866-407-6666**

NOTICE: Given the variety of factors that can affect the use and performance of a 3M Touch Systems Product (the "Product"), including that solid state equipment has operation characteristics different from electro mechanical equipment, some of which factors are uniquely within User's knowledge and control, it is essential that User evaluate the 3M Touch Systems Product and software to determine whether it is suitable for User's particular purpose and suitable for User's method of application. 3M Touch Systems' statements, engineering/technical information, and recommendations are provided for User's convenience, but their accuracy or completeness is not warranted. 3M Touch Systems products and software are not specifically designed for use in medical devices as defined by United States federal law. 3M Touch Systems products and software should not be used in such applications without 3M Touch Systems' express written consent. User should contact its sales representative if User's opportunity involves a medical device application.

IMPORTANT NOTICE TO PURCHASER: Specifications are subject to change without notice. These 3M Touch Systems' Products and software are warranted to meet their published specifications from the date of shipment and for the period stated in the specification. **3M Touch Systems makes no additional warranties, express or implied, including but not limited to any implied warranties of merchantability or fitness for a particular purpose.** User is responsible for determining whether the 3M Touch Systems Products and software are fit for User's particular purpose and suitable for its method of production, including intellectual property liability for User's application. If the Product, software or software media is proven not to have met 3M Touch Systems' warranty, then 3M Touch Systems' sole obligation and User's and Purchaser's exclusive remedy, will be, at 3M Touch Systems' option, to repair or replace that Product quantity or software mediator to refund its purchase price. 3M Touch Systems has no obligation under 3M Touch Systems' warranty for any Product, software or software media that has been modified or damaged through misuse, accident, neglect, or subsequent manufacturing operations or assemblies by anyone other than 3M Touch Systems. **3M Touch Systems shall not be liable in any action against it in any way related to the Products or software for any loss or damages, whether non-specified direct, indirect, special, incidental or consequential (including downtime, loss of profits or goodwill) regardless of the legal theory asserted.** (7/02)

5-wire (Voltage Driven)

4-wire (Voltage Driven)

8-wire (Voltage Driven)



Images not to scale

	USB	Serial	USB	Serial	USB	Serial
Part Number	SC501U	SC502S	SC401U	SC402S	SC801U	SC802S
Nominal Uncased Dimensions	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	2.67" 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	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
Communications Protocol	USB Rev 1.1, HID	Serial RS232 Plug and Play	USB Rev 1.1, HID	Serial RS232 Plug and Play	USB Rev 1.1, HID	Serial RS232 Plug and Play
Sensor Support	5-wire Resistive	5-wire Resistive	4-wire Resistive	4-wire Resistive	8-wire Resistive	8-wire Resistive
Host Cable Length (Pc99 Compatible)	PN: 7319420: 96" Cable, Pearl, 5-pin Connector	PN: 7319630: 96" Cable, Teal, 8-pin Connector	PN: 7319420: 96" Cable, Pearl, 5-pin Connector	PN: 7319630: 96" Cable, Teal, 8-pin Connector	PN: 7319420 96" Cable, Pearl, 5-pin Connector	PN: 7319630 96" Cable, Teal, 8-pin Connector
Sensor Connection	5-pin locking AMP	5-pin locking AMP	4-pin locking AMP	4-pin locking AMP	8-pin locking AMP	8-pin locking AMP
MTBF	400,000 hours	400,000 hours	400,000 hours	400,000 hours	400,000 hours	400,000 hours
ESD	8KV contact, 20KV Air	8KV contact, 20KV Air	8KV contact, 20KV Air	8KV contact, 20KV Air	8KV contact, 20KV Air	8KV contact, 20KV Air
Relative Humidity	0-95% RH up to +36° C *	0-95% RH up to +36° C *	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 *
Storage Temperature	-20° to +75° C	-20° to +75° C	-20° to +75° C	-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	0° to +65° C	0° to +65° C	0° to +65° C
Power Requirements (Typical)	USB Bus Powered 5Vdc ± 10% 15 mA typical	5Vdc ± 5% 16 mA typical 12Vdc ± 5% 19 mA typical	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
Regulatory	CE, FCC, VCCI, AS/NZS 3548, UL/cUL	CE, FCC, VCCI, AS/NZS 3548, UL/cUL	CE, FCC, VCCI, AS/NZS 3548, UL/cUL	CE, FCC, VCCI, AS/NZS 3548, UL/cUL	CE, FCC, VCCI, AS/NZS 3548, UL/cUL	CE, FCC, VCCI, AS/NZS 3548, UL/cUL
Drivers/Software	MT 7 (Windows 2000/XP), MicroTouch USB-HID Calibration Utility	TW5.6sr4 and later (Win 2000 XP, CE, Linux)	MT 7 (Windows 2000/XP), MicroTouch USB-HID Calibration Utility	TW5.6sr4 and later (Win 2000 XP, CE, Linux)	MT 7 (Windows 2000/XP), MicroTouch USB-HID Calibration Utility	TW5.6sr4 and later (Win 2000 XP, CE, Linux)
Warranty	3 Years	3 Years	3 Years	3 Years	3 Years	3 Years

* Above +36° C see controller specification