



48-B-4-09-USB-KIT & 48-B-4-09-SER-KIT
4 Wire Resistive Controller (USB and SER)
Specification Guide

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Last Revision Date: 07/07/2009

Document Number: 6500269

Revision: 2.0

Document Revision History

Revision	Page	Content	Revised By	Date
2.0	1-8	Specification	Bhushan Vaidya	07/07/2009

Product Overview

48-B-4-09-USB/SER-KIT

The RoHS compliant controller, specifically designed for 4-wire resistive sensors, offers a fast touch response while also providing excellent reliability and proven performance. It provides a Universal Serial Bus (USB) or a RS232 interface as required. The touch driver emulates the mouse left and right button functions.

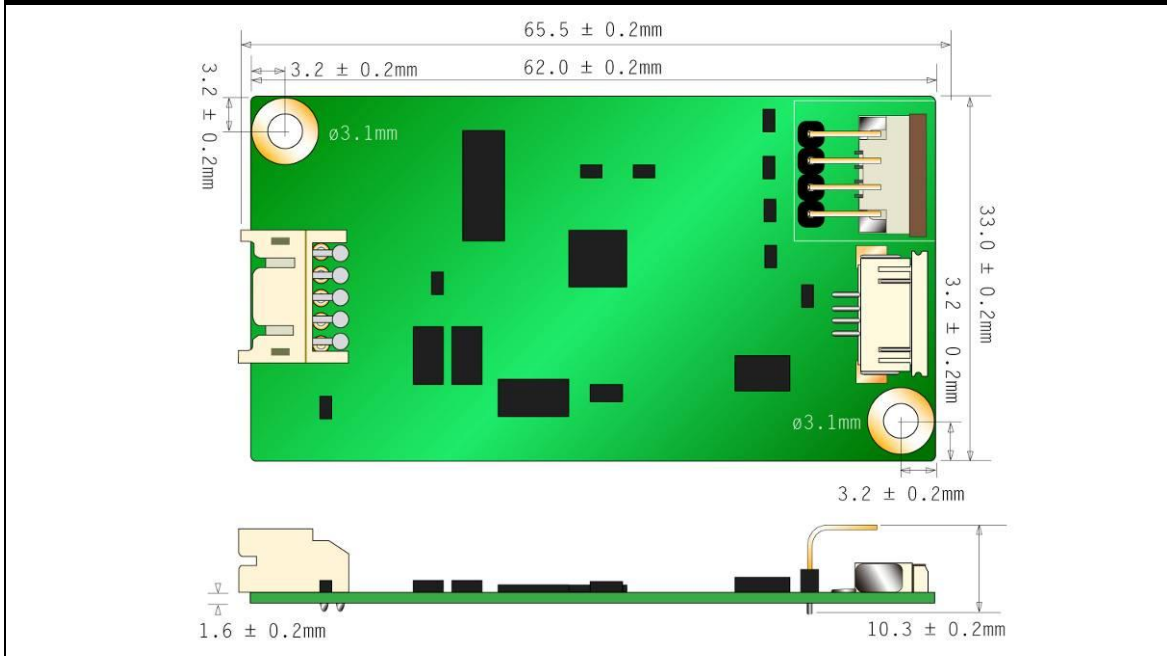
Supported Operating Systems

OS	Version	Interfaces
Windows	Windows Vista, XP/2000, 9x/ME Windows CE 2.12/3.0/.net/5.0 Windows Embedded Windows XP Tablet PC edition Windows 7	RS232/USB
Windows	Windows NT4	RS232
Linux	Mandrake (Mandrake 9.1/9.2/10, Mandriva 2005, Mandriva 2006) Red Hat (7.3/8.0/9.0) Fedora Core (I/II/III/IV/V) Yellow Dog (3.X) SuSE (9.2/9.3/10/10.1) Ubuntu (5.1/6.06) Debian (3.1, Kernel 2.4.x/2.6.x)	RS232/USB (up to Kernel 2.6.x)
DOS	DOS	RS232
Mac	Mac OS, Mac OS X (IBM, Intel CPU)	USB
QNX	QNX RTOS v6.3	RS232

Note: The 4-Wire Resistive (USB) Controller only supports Touch International drivers.

Note: The 4-Wire Resistive (RS232) Controller can emulate both 3M and Elo Protocols using RS232 communication.

Controller Drawings



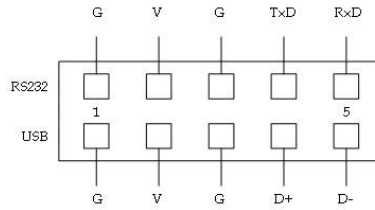
Specifications

Circuit Board Dimension	65.5mm x 33.0mm (2.58" x 1.30")
Power Requirements	D.C.+5V (100mA typical,50mV peak to peak maximum ripple and noise)
Operating Temperature	0°C to 70 °C
Storage Temperature	-40 °C to 80 °C
Relative Humidity	95% at 60 °C
Interface	Bi-directional RS-232 serial connection USB: 1.1 low speed, 2.0 full speed
Protocol	RS-232: No Parity, 8 Data Bits, 1 Stop Bit, 9600 baud (N, 8, 1, 9600) No flow control. USB: Full speed, USB 2.0 compliant
Resolution	2048x2048
Report rate	USB Model: Max 250 points/sec. RS232 Model: Max 160 points/sec.
Response time	Max. 20 ms
Attached Cable	6' shielded cable with USB-A connector for USB port. or 6' shielded cable with 9-Pin D-sub connector
Regulatory Approvals	FCC-B, CE
EMI	N/A
Panel Resistance	4-wire resistive model: 200 ~ 900 ohm/sq.
MTBF	200,000 hrs.

Pin Assignments

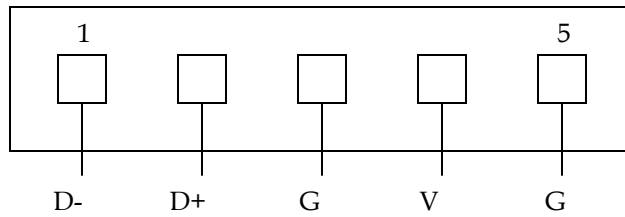
Controller Panel

Y-Converter Connector

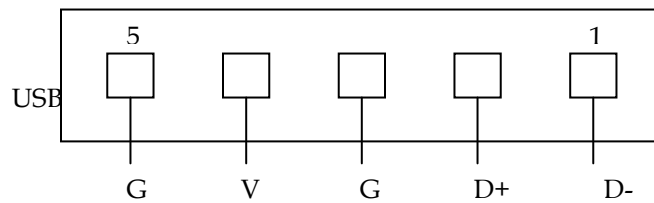
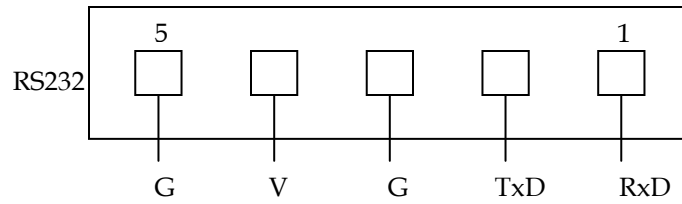


Pin Assignments (Continued)

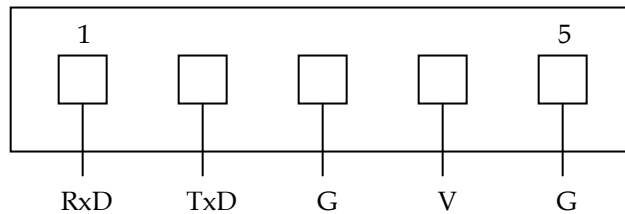
USB Cable



Y-Converter Cable



RS232 Cable



Ordering Information for USB Kit Includes (48-B-4-09-USB-KIT)

Part Number	KIT Description
48-B-4-09-USB-KIT	4-Wire USB Controller (1) :TI# 48-B-4-09
	Y-Converter Cable (1) : TI# 1300253
	USB Cable (1) : TI # 1300252

Ordering Information for RS232 Kit Includes (48-B-4-09-SER-KIT)

Part Number	KIT Description
48-B-4-09-SER-KIT	4-Wire RS232 Controller (1) : TI# 48-B-4-09
	Y-Converter Cable (1) : TI# 1300253
	RS232 Cable (1) : TI # 1300251

Contact TI sales representative for a complete list of TI's OEM and retail products.

Touch International
2222 W. Rundberg Ln. Suite 200
Austin, TX 78758
Tel: 512.832.8292 Fax: 512.491.6381
technicalsupport@touchintl.com
www.touchinternational.com