



***TouchInternational***

**48-B-5-09-KIT**

**5-Wire Resistive Controller (RS232) Specification Guide**

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## Document Revision History

Revision	Page	Content	Revised By	Date
2.0	1-8	Specification	Bhushan Vaidya	08/31/2009

## Product Overview

### 48-B-5-09-KIT

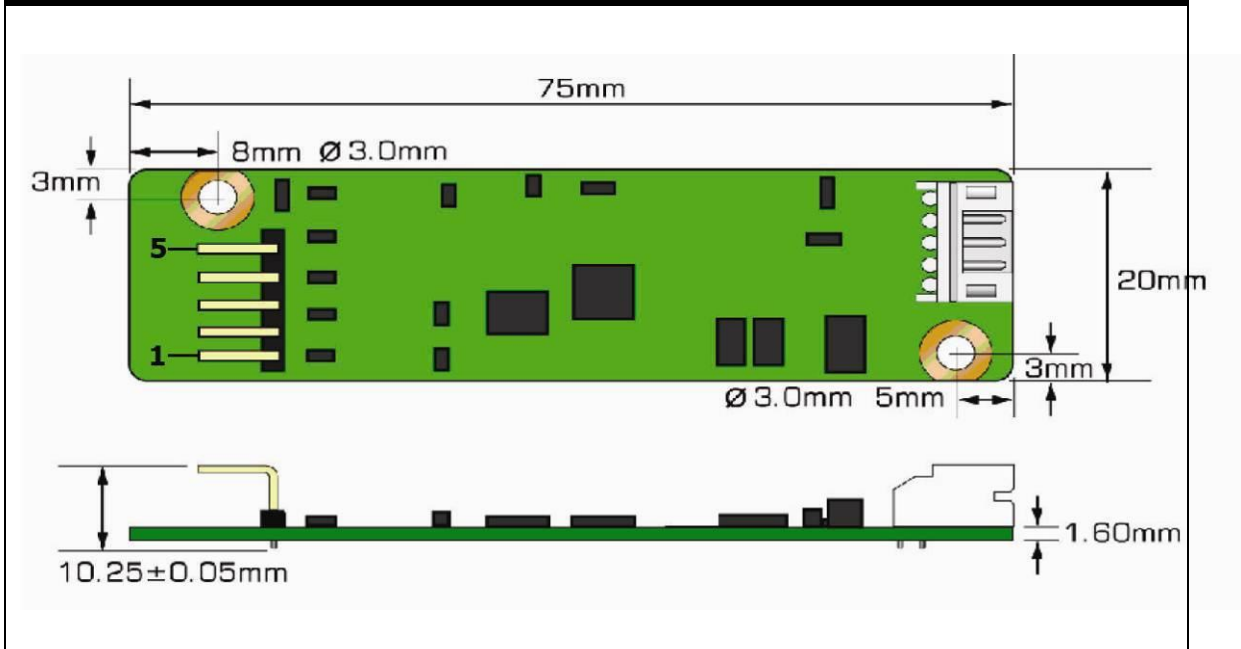
The RoHS compliant controller, specifically designed for 5-wire resistive sensors, offers a fast touch response while also providing excellent reliability and proven performance. It communicates with a host computer using the RS-232 serial interface. The touch driver emulates the mouse left and right button functions and supports the following OS:

## Supported Operating Systems

OS	Version	Interfaces
<b>Windows</b>	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
<b>Windows</b>	Windows NT4	RS232
<b>Linux</b>	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)
<b>DOS</b>	DOS	RS232
<b>Mac</b>	Mac OS, Mac OS X (IBM, Intel CPU)	USB
<b>QNX</b>	QNX RTOS v6.3	RS232

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

## Controller Drawings

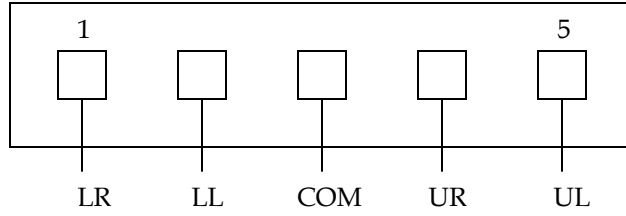
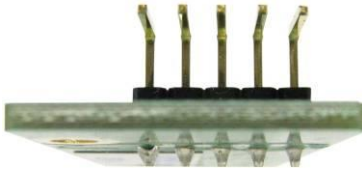


## Specifications

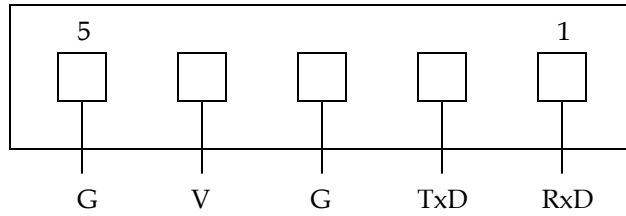
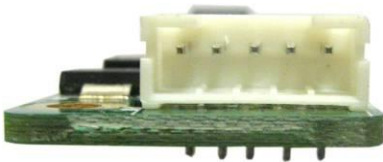
<b>Circuit Board Dimension</b>	20mm x 75mm (0.79" x 2.95")
<b>Power Requirements</b>	D.C.+5V (100mA typical,50mV peak to peak maximum ripple and noise)
<b>Operating Temperature</b>	0°C to 70 °C
<b>Storage Temperature</b>	-40 °C to 80 °C
<b>Relative Humidity</b>	95% at 60 °C
<b>Interface</b>	Bi-directional RS-232 serial communication.
<b>Protocol</b>	No parity,8 data bits,1 stop bit,9600 baud(N,8,1,9600)
<b>Resolution</b>	2048x2048
<b>Report rate</b>	RS232 Model: Max. 160 points/sec.
<b>Response time</b>	Max. 35 ms
<b>Attached Cable</b>	6' shielded cable with 9-pin D-sub connector.
<b>Regulatory Approvals</b>	FCC-B, CE
<b>EMI</b>	N/A
<b>Panel Resistance</b>	5-wire resistive model:50~200 ohm/sq.
<b>MTBF</b>	200,000 hrs.

# Pin Assignments

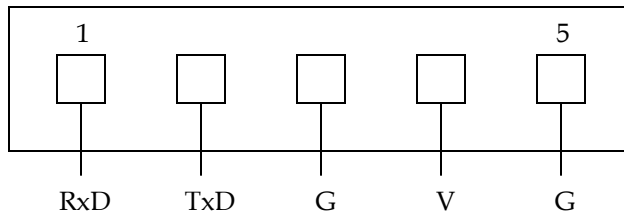
## Controller Panel



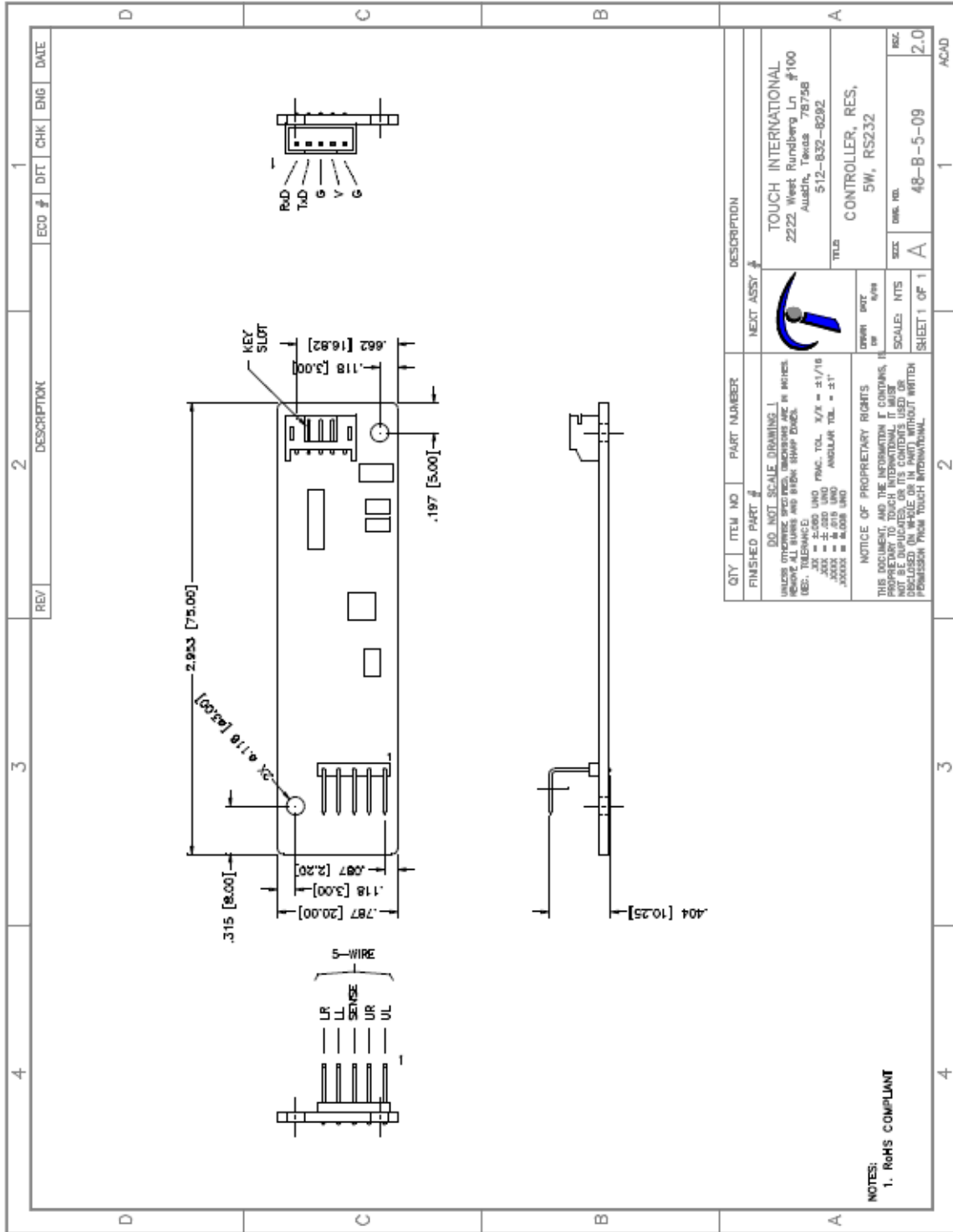
## USB Connector



## RS232 Cable



# Drawing:



## Ordering Information

Part Number	Description
5-Wire RS232 Controller (1)	TI# 48-B-5-09
RS232 Cable (1)	TI # 1300251

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

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