



TSHARC-12 "Mini" RS-232 and PS/2 Analog resistive touch screen controller board

Product Description:	Electrical Specifications:	02B_TS12m_Lit060522.doc
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The TSHARC "mini" touch screen controller is designed to supply easy, low cost decoding of 4, 5 or 8 wire resistive touch screens where a small foot print board with RS-232 or PS/2 communications is required.

The "off the shelf" TSHARC-12 Mini controller comes equipped with a .100", 16 position dual row, right angle header for easy connection to 4, 5 or 8 wire resistive touch screens. The communication header is a .100", 8 position right angle friction lock header. Users may specify other .100" connector types to meet their specific requirements if necessary. The very small overall size, makes this controller ideal for applications where space is limited.

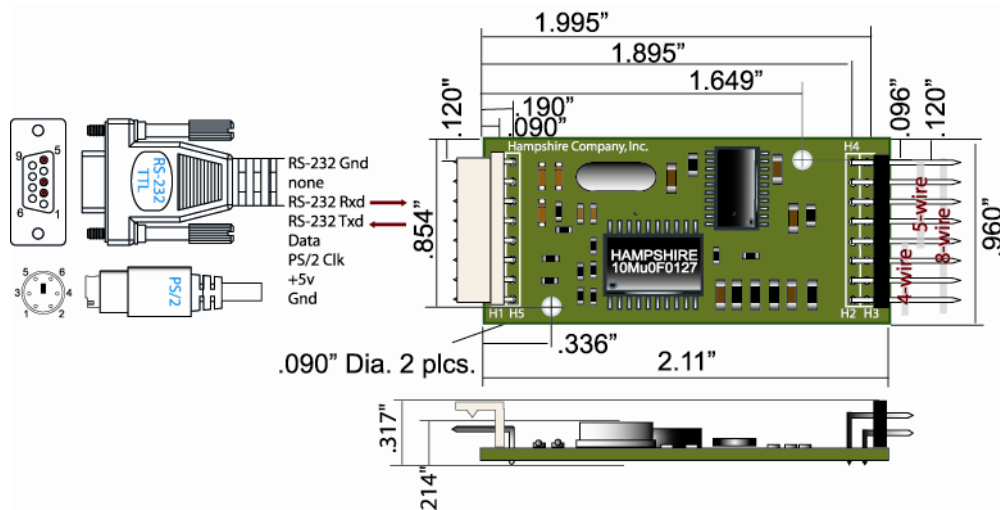
The "mini" controller supports 12 bit (4096 x 4096) screen resolution and will perform well in drawing and character capture, as well as touch only applications. The low 4Mhz clock rate helps to insure that you will meet your system EMI and FRI emissions requirements.

Hampshire's propriety firmware is designed to dynamically determine the best possible sample rate for the touch application being performed. Hampshire firmware increases performance and insures touch or drawing stability for all resistive touch screen types regardless of manufacturer or construction.

For embedded applications, Hampshire's "Chip and Driver" solutions are true "Single Chip" solutions. They dynamically support RS-232 and PS/2 communications as well as 4, 5, & 8-wire resistive touch screens. Hampshire device drivers and technical support are also included.

Custom firmware and drivers are also available.
www.hampshirecompany.com

- Touch Screens: All Manufacturers 4, 5, or 8 wire analog resistive
- Driver Support: DOS, Win3.1x, 9x, 2K, ME, XP, CE, XPe, MAC, Wind River, Linux, custom, private label (developed in house)
- Resolution: 12-bit (4096 x 4096) 16.6M points in the field.
- Communications: RS-232, TTL or PS/2
- Size: 2.11" x .96"
- Connectors
 - Touch Screen: 16 pos. Rt. Dual Row, Sullins: PTC08DBAN
 - Communication: 8 pos. Rt. Single, Friction Lock, Amp: 640457-8
 - Custom connectors available upon request.
- Clock Frequency: 4 MHz
- Sample Rate: Touch point velocity regulator™ - 40 - 125 pts/sec
- Baud Rate: 9600 (others available per request)
- Data Output: 4, 8 bit packets
- Power: 5.0Vdc, from PS/2 port
- Environmental: Storage: -40c - 85c
Operating: 0c - 70
- Static Protection: 24 Kv



[Get the complete, Hampshire, TSHARC-12m "mini" user's manual on the web](#)

