



UNIVERSAL SURFACE CAPACITIVE TOUCH SCREEN CONTROLLER BOARD



Hampshire Standard RS-232 and USB Communications

Product Description:

TSHARC-12 C-RAY



General Specifications:

Touch Screen: All Capacitive touch screens with or w/o back shield
Resolution: 12 Bit (4,096 x 4,096)
Communications: RS-232 and USB
Com Protocol: HID Compliant USB and Hampshire Standard serial
Size: 2.43" x 1.30"

Connectors
Touch Screen Side: .100" Sullins: PEC05SBAN
Com Side: .100" Sullins: PEC05DBAN & PEC02SBAN
 * 2mm, and shrouded TS header available per request.

Sample Rate: Configurable 40 - 100 points/sec. (raw data >240 points/sec.)
Baud Rate: 9600 baud (others available upon request)
Voltage Required: 5Vdc- 16Vdc +/- 5% or from USB port
Environmental: Storage: -40c - 85c Operating: 0c - 70c
Static Protection: 30 KVA
PC Board UL File: See Below
Connectors UL File: See Below
Part Number: HS12-009C0J-03

The TSHARC C-Ray board is a new standard in capacitive touch screen controller technology, which supports Serial and USB communication in conjunction with any manufacturers capacitive touch screen with or without a back shield.

The C-Ray controller is available as a fit, form and functional "bridge building" configuration which enables you to migrate from other industry controllers to Hampshire's **universal, never obsolete standard**. For more information about other communication options as well as connector options, contact Hampshire Company.

The C-Ray is an inexpensive high performance touch screen controller which, in holding true to our design fundamentals, utilizes standard, "off-the-shelf" micro-controller technology in conjunction with Hampshire's proprietary decoding techniques and device driver software. This **virtually eliminates the possibility of obsolescence** while maintaining the high performance and utility standards that you expect from Hampshire Company.

Hampshire own TSHARC device drivers are included with the chip or board solution. Bill of material schematic drawings and technical support is available for high volume chip applications. Custom and private labeled hardware and software products are also available at minimal charge.

For additional information please visit the Hampshire web site at: www.hampshirecompany.com or contact Hampshire Company, Inc. at: 414-355-4675.

