H A M P S H I R E

TSHARC-10, 12 "Octopus" R-232, PS/2, USB
Analog Resistive Touch Screen Controller Board Version 1.6

Product Description:

Hampshire's TSHARC™-xx Octopus™, touch screen controller board is a new standard in touch screen controller technology, which concurrently supports RS-232, PS/2 and USB communications as well as all manufacturers 4, 5, and 8 wire analog resistive touch screen overlays.

The "Octopus™" touch screen controller utilizes Hampshire proprietary decoding techniques which quickly and accurately decode touch points in touch-only, drawing and writing applications.

This controller board is the only board available which may be user configured for RS-232, PS/2 or USB communication, regulated or un-regulated power as well as any manufacturers 4, 5, or 8-wire analog resistive touch screen.

All Hampshire drivers are developed and supported in house to insure that you have a properly matched set of touch screen hardware and software for your application. Custom and private labeled drivers are also available.
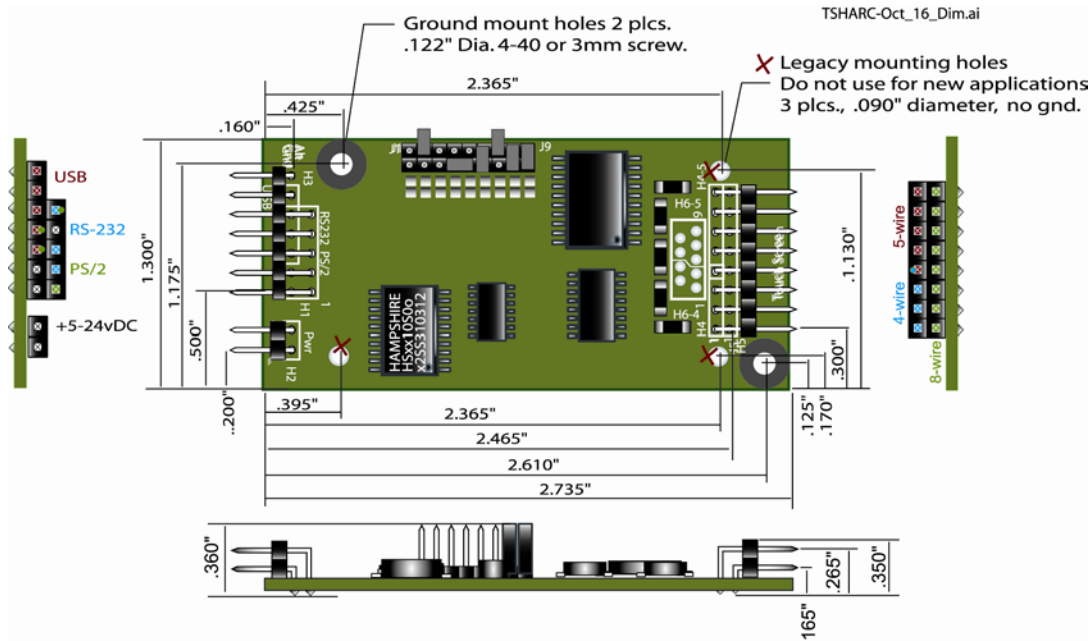
Hampshire has implemented a universal board design in each of our user configurable board products to help you design in flexibility. The Octopus, Octopus USB and the "V" board are mechanically interchangeable.

For additional technical information, pricing and delivery please contact Hampshire Company, Inc.. Phone: 414-873-4675 or visit our web site: www.hampshirecompany.com

Electrical Specifications:

Touch Screens:	All Manufacturers 4, 5, 7 or 8-wire
Transmission Speed:	Dynamic flow control 100 points/sec
Communications:	RS-232, PS/2 or USB
Drivers:	DOS, Win9x, ME, XP, NT, 2K, CE, NET, MAC, Wind River, Linux, custom (private label available)
Power Options:	Regulated, Unregulated, from port
Connector Options:	Standard: .100" .025" sq. post headers. *Customer may specify other .100" or 1mm ZIF connectors..
Power:	5vDC, 7.2 – 24Vdc from PS/2 or USB port
Power Consumption:	$\approx 2mA+i$ Where (i = v/touch screen sheet resistance)
Resolution:	10-bit (1,024 x 1,024) or 12-Bit (4,096 x 4,096)
Size:	2.73" x 1.30"
Clock Frequency:	6.0 MHz
Sample Rate:	USB Standard
Baud Rate:	9600 baud
Data Output:	See users manual for various communication outputs.
Environmental:	Operating: 0c - 70c Storage: -40c - 85c
Static Protection:	24Kv
Mounting:	3mm (4-40) screws.

Complete, Hampshire, TSHARC-xx "Octopus" users manual on the web: www.hampshirecompany.com

TSHARC
Hampshire Touch Screen Controllers