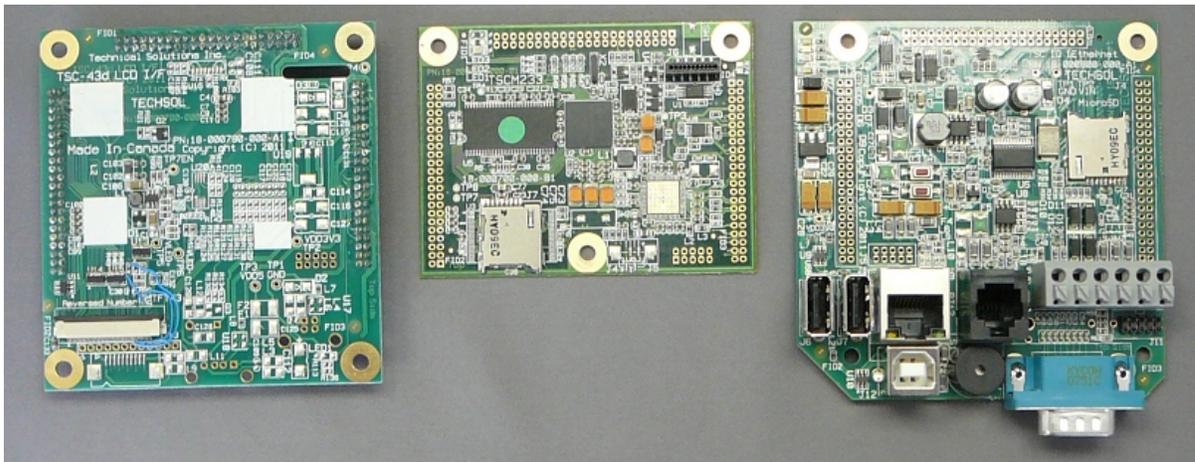# Techsol New Product Announcement: Techsol's "Small Display" series of Touch-Screen Computers pack value into small space, at low cost. From 3.5# to 4.7#.

$Id: TechsolProductNews_small-TSC.xml 2649 2012-10-10 00:48:08Z brolin $

Techsol is proud to announce the "Small Display" series of Touch-Screen Computers.

Vancouver, British Columbia, Canada - 2012#09#18

Technical Solutions Inc. (Techsol) has released a new, modular touch-screen computer line. With 500 MIPS of ARM computer power, DDR memory, LCD, touch panel, Ethernet, USB and RS-232 serial ports, buzzer, power supplies, and even a microSD card connector, they are an ideal computer for many small, touch-screen applications.

SUMMARY

Techsol is now offering the components needed for you to build your own HMI (Touch-screen) products, including:

- display modules (in small or large form factor)
- computer modules (TSCM)
- I/O interface and power supply boards

DISPLAYS

The members of the small-form-factor TSC (Touch-Screen Computer) product line share a common 80 mm x 85 mm size. The display boards are a simple, rectangular PCB. The display PCB supports the LCD in front of it, plus the board stack behind it. In this size Techsol offers 3.5# and 4.3# displays, both with LED backlighting and 4-wire resistive touch screens.

The displays are mated to a matching interface board which provides the LCD connector and logic circuits to connect the display, the backlight power supply (with brightness control), as well as touch-screen connector and circuitry as needed.

CUSTOM DISPLAYS: Custom is our specialty, and if you have a small display that you'd prefer to use, then we can make it work!

COMPUTER MODULE

The user selects the computer of choice from the TSCM (Touch-Screen Computer Module) lineup. This includes the TSCM-233 and the newer TSCM-283, all running Medallion Linux. Soon there will be a single-core Cortex-A8 option, the TSCM-53, followed by a very powerful multi-core option. All TSCM choices are pin-compatible, allowing full designer control over how much compute power is dialed in, and over costing.

I/O BOARDS

The power supply and interfaces are on the I/O board, which is the last board in the stack. The standard option provides Ethernet, USBs, serial ports, and a wide-input power supply. CUSTOM I/O: Techsol specializes in custom, and will develop I/O boards to suit your requirements. We have chip-level designs for Global Positioning System (GPS), Power over Ethernet (POE), etc.

CONCLUSION

The modular architecture, with a 3-layer board stack, offers unprecedented flexibility in creating computer solutions to meet your needs. And you never have to worry about obsolescence, as Techsol replaces obsolete parts with functionally equivalent ones as needed to keep product flowing.

This small form factor is popular for handheld devices as well as low-cost fixed devices. For example, the 3.5# units are currently used on test gear on automobile production lines, and the 4.3# units are used in maritime instrumentation and medical Human-Machine Interface (HMI) applications.

Dimensions: Width: 80 mm, 3.15" Height: 85 mm, 3.35" Thickness: 34 mm, 1.34"

WHY SHOULD I SELECT THIS SOLUTION?

"These computers are built to the same quality levels as our Medallion Classic CPU modules," said Brian Empey, P.Eng., CEO of Techsol, "but they have more integrated features and a lower acquisition cost, which makes them suitable for a wider variety of low-cost applications".

Techsol's deep hardware design experience, including chip-level designs for the computer boards, wireless, Power over Ethernet (POE), GPS, etc., coupled with deep software experience (12 years of Linux on ARM experience) means that Techsol has probably already developed the interfaces you need and written the device drivers for them.

See also

- Small Touch Screen Computer (Small TSC) product page
- Touch-Screen Computer Module (TSCM) product page
- DevKits

Embedded Engineering is the same all over the world. Engineers face the same challenges of having too much to do, and not enough time or money with which to do it. Techsol's Medallion Classic and TSC modules address this issue and provide a solution that extends into the production stages of a product, not just the proof-of-concept stage like many small SBCs.

Techsol's Medallion system is unique in the embedded computer world. The Medallion Single-board computer product line encompasses multiple CPUs, and different configurations with the same CPU. However, the pin-out and form factor remain the same, even after 10 years. And the newer TSCM will also have a similar long availability for "planned NON-obsolesence". There is one Medallion module that is best matched to your application.

By designing with the Medallion system, you are effectively outsourcing your CPU design and Linux porting with no up-front NRE fees! That lets your team concentrate on the hardware and software portions of your product that your customers see. The result is that you can create a higher-quality product in a fraction of the time (and cost) of designing everything yourself from scratch! Furthermore, the interchangeable modules extend product life-cycle times.

For more details, or to request further information, please:

- visit our Web site at <medallionsystem.com>
- or call 1-888-TECHSOL in North America or 1-604-946-8324 and ask for Ashley or Brian
- or e-mail <sales@techsol.ca>.

Techsol is headquartered in Delta, British Columbia, Canada, where the mighty Fraser River meets the Pacific Ocean.