

# Techsol Product Announcement: TPC-43A Medallion Touch Panel Computer

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## **Table of contents**

1 Techsol is proud to announce the TPC-43A Medallion Touch Panel Computer.....	2
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## 1 Techsol is proud to announce the TPC-43A Medallion Touch Panel Computer.

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Delta, British Columbia, Canada - February 13, 2008

Techsol is now offering an extremely cost-effective computer with a **Color, TFT LCD and Touch panel** targeting Building Automation applications. This standard, off-the-shelf, ARM-powered, wall-mount, two-board set features:

- WqVGA (480x272) **4.3"**, **Color, TFT LCD Panel** in Landscape format, with 256,000 colors, adjustable **LED Backlight**, and **Touch panel**
- Powered by a standard **Medallion CPU Module** (an SA2410-640 is included) for flexibility, the 32-bit **ARM9 processor** features **32 kB of cache, 32 - 64 MB of**

**SDRAM**, and 128 MB or more of **NAND flash**, plus a separate **NOR flash** for reliable bootloader and SW update options

- **Low-power**, passive cooling enables **fanless operation**
- High-quality, **16-bit Audio** with **onboard speaker**
- **Low-power, Real-Time Clock (RTC)** with Battery Backup included
- **Hidden Memory Card Connector** for Secure Digital (SD) and MultiMediaCard (MMC) (for user-upgradeable storage expansion)
- **Full-speed, USB Host port** (USB Type A connector) supports **Hidden Wireless Expansion**, such as **802.11** or **Bluetooth**
- **USB Device (Gadget) port** (USB Type B connector)
- **Fast Ethernet (10BaseT/100BaseTX)** interface with RJ45 connector featuring integrated LED status indicators
- Optional **ZigBee wireless** built-in for **wireless data collection** and **building management**
- **RS232 serial interface** on DE9 connector for development versions, to accelerate SW development
- **Power options:** 10 - 30 VDC or 7 - 24 VAC
- To **reduce power consumption**, software can turn the **backlight intensity** ON/OFF and control the **brightness**
- Ships with the proven **Medallion Linux 2.6 plus drivers pre-installed!**

#### **Dimensions:**

- **Width:** 129 mm, 5.1"
- **Height:** 111 mm, 4.4"
- **Thickness:** 28 mm, 1.1"
- **Mounting:** Even though the unit covers a **2-gang electrical box**, the power and Ethernet are on one side, so it can be mounted to a **1-gang electrical box**.

#### **GUI options include:**

- Linux **Framebuffer (FB)**, operating in 16-bit, 65,536-color mode
- **X11 (Xorg using fbdev)** on FB for standard Linux/Unix graphics
- **FLTK** on X, for a full-featured, extensible, yet *Free* GUI
- **GTK+** on X, for full PC compatibility
- **QtEmbedded** on FB for a contemporary, appealing visual design and enhanced functionality
- We've even ported over obscure GUIs, such as **EZWGL**, for critical control environments where C++ is not allowed (such as food processing lines)

"This computer provides **more features at a lower cost** than anything else on the market." said Brian Empey, P.Eng., CEO of Techsol. "This is an example of the cost-effectiveness of

making a standard CPU module to a custom I/O board. If necessary, we can quickly modify the design to meet a customer's unique needs, too!"

Not surprisingly, Techsol has developed many products that use LCDs for its clients. These products range from FDA-approved medical devices to high-volume consumer gadgets.

In fact, this product has been in trials with a number of customers needing a wall-mount computer with a bright, sharp display, but at a low price-point.

**Pricing** for units with all options except wireless:

Order Quantity	Unit Price (standard 200 MHz speed)	Discount
10	\$399	base price
100	\$359	10%
1,000	\$339	15%
10,000	\$319	20%

Development kits based on **the TPC-43A are available from stock**. Production volumes will be ready to ship in March.

Every unit is tested running Linux before it ships! Single units are available as development kits with full SW development tools and support. Call for pricing.

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 to do it with. Techsol's **Medallion** CPU 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 most 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. There is one **Medallion** module that is best matched to your application.

By designing with the **Medallion** system, you are effectively **out-sourcing** 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! Plus, the **interchangeable modules extend product life-cycle times**.

For more details, or to request further information, please visit our Web site at [medallionsystem.com](http://medallionsystem.com), call 888 TECHSOL (888 832 4765) or 604 946 8324, or e-mail [sales@techsol.ca](mailto:sales@techsol.ca).

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

**See also**

- [TPC-43A product page](#)
- [DevKits](#)