

# Techsol Product Announcement: TPC-43B Medallion Touch Panel Computer with POE

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

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Delta, British Columbia, Canada - July 8, 2009

Techsol is now offering an extremely cost-effective computer with a **Color TFT LCD and Touch panel** plus **Power-Over-Ethernet**, targeting Building Automation and factory HMI (Human-Machine Interface) applications. This standard, off-the-shelf, ARM-powered, wall-mount, product features:

- **WqVGA (480x272) 4.3"**, **Color, TFT LCD Panel** in Landscape format, with 65,536 colors, adjustable **LED Backlight**, and **Touch panel**
- Powered by a standard **Medallion CPU Module** (an SA2410-650 is included) for flexibility, the 32-bit **ARM9** processor features **32 kB of cache, 64 MB of SDRAM, and 128 MB or more of NAND flash**, plus a separate **NOR flash** for reliable boot-loader and SW update options
- **Power-Over-Ethernet (POE) dramatically reduces installation costs.**
  - **Replace power cables with a single CAT 5 cable for both power and Ethernet!**
- **Power options:** 10 - 30 VDC or 7 - 24 VAC or **POE**
- **Low-power**, passive cooling enables **fanless operation**
  - Typical power consumption with **12 V** in, with LCD & Backlight ON is **< 200 mA @ 200 MHz** (full-speed)
  - To **reduce power consumption**, software can turn the **backlight ON/OFF** and control the **brightness**
- **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**
- **Fast Ethernet (10BaseT/100BaseTX)** interface with RJ45 connector featuring integrated LED status indicators
- **SW-controlled beeper** with **frequency/tone control**
- **RS232 serial interface** on optional DE9 adapter to accelerate SW development
- 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:**
  - Choice of **Qt on X** or **Qt Embedded**, for full PC compatibility
  - Linux **Framebuffer (FB)**, operating in 16-bit, 65,536-color mode
  - **X11 (Xorg)** on FB for standard Linux/Unix graphics
  - **FLTK** on X, for a full-featured, extensible, yet *free* GUI
  - **GTK+** on X, another option for PC compatibility
  - Ask about **Web Browser Support**

"The cost-savings from using POE (Power Over Ethernet) are substantial, particularly in industrial environments and metal buildings." said Brian Empey, P.Eng., CEO of Techsol. "Compared to getting the electrical contractor out to run power and communications lines to the location of each HMI unit, with POE you just run a single CAT 5 cable and you're done. And since it's "low-voltage" per the NEC, you usually don't need a certified electrician. In fact, your IT person can normally take care of this for you, often saving hundreds of dollars per unit installed."

Not surprisingly, Techsol has already developed some products that use POE for its clients, so that technology is field-proven, and the rest of the design is derived from the popular TPC-43A.

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

Order Quantity	Unit Price (standard 200 MHz speed)
10	\$439
100	\$399
1,000	\$369
10,000	Please <a href="#">contact us</a> for pricing!

Every unit is tested running Linux before it ships! Single units of the TPC-43B are available as development kits with full SW development tools and support. Call for pricing.

Development kits are available from stock. Production volumes are typically 6 to 8 weeks.

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-43B product page](#)
- [DevKits](#)