

# Techsol Product Announcement: TPC#43C “Green Tech” Medallion Touch Panel Computer with POE

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

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Techsol is now offering a low carbon footprint 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 65,000 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 bootloader 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 SD and MMC cards (for user-upgradeable storage expansion)
- **Full-speed, USB Host ports** (USB Type A connectors) supports **Wireless Expansion, such as 802.11 or Bluetooth**
- **10/100-BaseT Ethernet** interface with RJ-45 connector featuring integrated LED status indicators
- **all connections exit the rear**, unlike PC-based products whose connectors point into the drywall
- **SW-controlled beeper** with **frequency/tone control** are standard
- **RS232 serial interface** on optional DE-9 adapter to accelerate SW development
- Ships with the proven **Medallion Linux 2.6.3x plus drivers pre-installed.**
- **Dimensions:** Width: 178 mm, 7" Height: 100 mm, 3.95" Thickness: 9 mm, 0.4" from wall (Over all: 33 mm, 1.3")
- **Mounting:** This unit sits in a recessed hole in the wall or instrument panel. It is held in place by magnets which clamp to a wall bracket (supplied). It requires a recess of only about 1" (25mm).
- **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** as we offer a few options there

"The robust enclosure is made from recycled steel.", said Brian Empey, P.Eng., CEO of Techsol, "It's welded and then powder#coat painted for a durable finish. Steel is also recycled in most North American cities, so the materials can be economically recycled again in the future. Compared to a plastic enclosure, this offers the advantages of sustainable materials and a reduced carbon footprint, as steel production consumes less energy than alloys or plastics."

Another advantage of this production technique is that the customer has a wide choice of colors available, to match end#user preferences. But materials aren't the only green aspect. Power consumption is under 3 watts even with the backlight at its brightest setting, which beats any x86#based product. In fact, when these products replace PC#based products, they

can pay for themselves in a few years just based on energy savings. Saving energy is good for the planet, and for your bottom line!

**Pricing** for units with all options except wireless & debug cable:

Order Quantity	Standard* Unit Price in \$
10	\$425
100	\$385
1,000	\$345
10,000	\$300 or better, <a href="#">contact us for a quote</a> .

\*Standard configuration includes 200 MHz processor speed; 64 MB SDRAM; 2 MB NOR FLASH; 128 MB SSD; other configurations are priced accordingly.

Every unit is tested running Linux before it ships! Single units of the TPC#43C 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 available in 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#43C product page](#)
- [DevKits](#)