

# Techsol's Medallion System

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## 1 Introduction to Techsol's Medallion System

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Techsol's Medallion System can be summarized as:

- a **computer design** based on **cost-optimized cellular telephone processors**
- surrounded by **industrial-grade chips**
- powered by **Free/Libre & Open-Source Software (FLOSS)**
- and guided by **decades of experience** creating systems from **mission-critical controls** to **FDA Class 3 Life Support devices**

Techsol is a **pioneer** in **Linux on ARM** technology.

Leverage our off-the-shelf **Medallion [Computer Modules](#)** and [development kits](#) to accelerate your development projects. Whether you just need a Computer-on-Module for your own [semi-custom](#) design, or you need a [turn-key solution](#), Techsol's focused [Hardware](#) and [Software](#) expertise plus [superb support](#) get you to market faster.

And our highly-integrated solutions provide the greatest value to maintain your competitive cost-advantage into [production](#).

## 2 Message from the CEO

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### 2012#10#05

Well, our pace of new product development continues to exceed our pace of posting items on our Web site. We have published a [press release](#) about our "Small TSC" (2.x# to 5# Touch#Screen Computers), which are described on the [Small TSC product page](#). And we'll follow with information about our "Medium TSC" products, with screens from 5# WVGA to 10.x#, as well as "Large TSC" products, which have 8# and larger displays. The main distinction between Medium and Large (besides size) is that the Medium line have a parallel RGB interface to the display, whereas the Large series use LVDS. That sounds like we'd only need a single display adapter board for LVDS displays but, unfortunately, variations in the touch#screen connectors and backlight requirements of different models of displays force us to use unique solutions for different models of display panels.

In addition to new Hardware, there are lots of new Software developments too, including [Java SE support on the Touch#Screen Computer Modules](#).

So stay tuned. There's lots more to come!

[Archived Messages](#)

## 3 What is Techsol's Medallion System?

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Techsol is a North American (NAFTA) corporation providing **low-cost outsourcing of your embedded technology design and board fabrication**. We offer a variety of products and programs that will **get you to market quicker** using our **proven ARM/Linux platforms to**

**mitigate risks.** We make a bit of margin on hardware sales, but **we save you a huge amount of development cost, resulting in a net positive return-on-investment (ROI) when using Techsol's Medallion System for product design!**

Like the North American companies who act as agents for off-shore outsourcing companies, we offer these benefits:

- **Our staff speaks English** (and also Mandarin and Cantonese)
- **We are in your time zone** (or very close to it): we're on Pacific Time.
- Most likely, **we can visit your site for a meeting** and return in the same day (or vice versa)

But, unlike North American companies who act as agents for off-shore outsourcing companies, we offer these benefits:

- **Engineering is performed in North America**
- **Production is performed in North America**
- **You are not spending any extra money dealing with a middle man.**

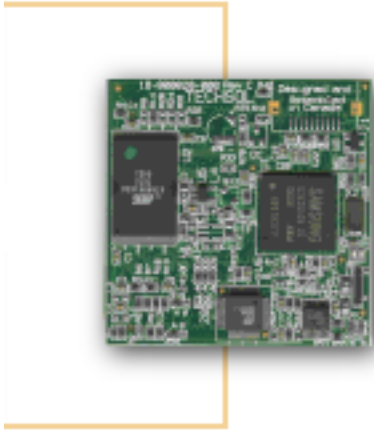
The net effect is that **we can get you to your goals faster, cheaper, better** than by any other means.

And our proven hardware and software platforms **minimize your project's risk** elements!

#### 4 Your Semi-Custom Medallion-based Product

Your Applications Software	
Techsol's Medallion Software	
Techsol's Medallion Hardware	
Your Hardware	
Custom Software, Commercial/Proprietary Software, Free/Libre & Open-Source Software, C/C++/Java/Perl/Python/sh (Bourne shell)/bash, etc.	
Languages:	ARM Assembly, C, C++, Java, Perl, Python, sh (Bourne shell)/bash, etc.
GUIs:	Linux framebuffer (FB), X Window System (X11, Xorg using fbdev), FLTK, GTK+, PyGTK, WxWidgets, QtEmbedded, ...

**“Your Embedded Computer Experts”**  
**1 888 832 4765**



Your Applications Software	
Techsol's Medallion Software	
Techsol's Medallion Hardware	
Your Hardware	
Comms:	TCP/IP, IrDA, USB Mass Storage, etc.
Data:	MySQL, PostgreSQL, SQLite, Derby, any Open-Source database
OS:	ARM7: Linux 2.4.x, <b>ARM9: Linux 2.6.x/3.x</b>
Drivers:	For all the Medallion Hardware
CPUs:	ARM7, <b>ARM9</b> , Cortex-A8, i.MX, OMAP
Graphics:	STN, CSTN, <b>TFT LCDs</b> (up to 18-bit data), OLEDs, <b>Touch screens</b>
Comms:	Serial (RS232, RS422, RS485), Ethernet (including <b>Power over Ethernet (PoE)</b> ), IrDA, <b>USB Host</b> and Device, I <sup>2</sup> C, SPI, ...
Data Flash:	DiskOnChip (16 MB to 64 MB) or <b>NAND flash (128 MB to 2 GB)</b>
Boot Flash:	Medallion boot loaders, debugger in 2 MB of NOR flash
Other:	Stereo audio in/out, on-board reset controller, regulators, RTC, WDT, etc.
A PCB in the shape you want, with connectors where you want them, and power supply (very	

Your Applications Software Techsol's Medallion Software Techsol's Medallion Hardware Your Hardware
simple) that you can design yourself or we can design for you!

Table 1: Your Semi-Custom Medallion-based Product

Our [software](#) comes pre-configured for your platform, along with any desired third-party IP (such as Java) when you purchase our hardware. All licensing and royalty costs are included in the product cost. You can develop your own applications software using one of our [development kits](#) or we can develop it for you!

We can offer this level of product-design acceleration to our customers because of the tight integration of hardware and software in our platform's design.

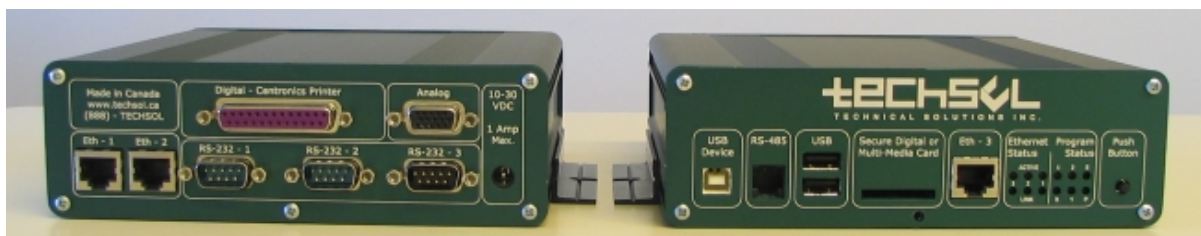
## 5 Techsol Can Solve Your Problems!

We can help in many ways.

We design and manufacture [custom](#) and [“semi-custom” products](#) quickly and efficiently (AKA for minimal cash outlay!) With a **broad depth of commercial, industrial, medical, security, and consumer product designs** under our belt, you get the advantages of a team who can compete internationally in all these areas working for you!

- Do you need to create a new product?
- Or just update an existing product?
- Do you need to update your product so it can connect to the Internet?
- Do you need to update your [display](#) to a (color) LCD screen? With Touch?
- Do you want to design your own PCBs and just plug in the most advanced [computer module](#)?
- Or do you want a fresh product that is fully-featured, robust, low-cost and leading-edge?

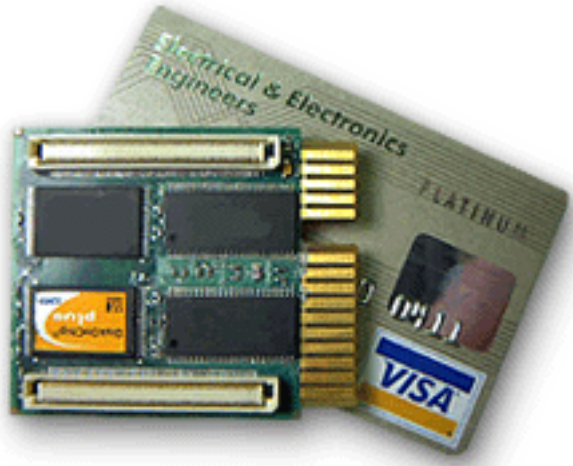
We can do any combination of the above.



And we will adapt our services to meet your needs!

## 6 Medallion Classic: The Original 50 mm<sup>2</sup> ARM-Linux CPU Module

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While this started a trend back in 2002, there is still no other computer this small, with USB Host ports, LCD and Touch controllers, Audio, and a 32-bit expansion bus at this price. Check out the **smallest, full-featured Computer-on-Module technology** here: [Medallion Classic CPU Modules](#).

## 7 Medallion TSCM: The Cost-optimized Touch-Screen Computer Module

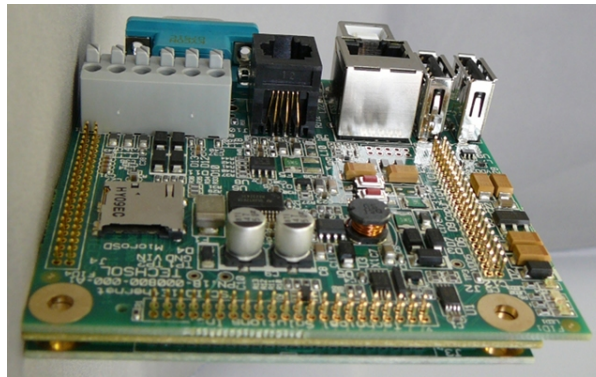
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We took everything we learned from the [classic Medallion CPU module](#) and slashed costs wherever we could to create a low-cost, high-performance, high-quality computer ideally suited for touch screen applications (though it can be used for others). The [Touch Screen Computer Module \(TSCM\)](#) trades off larger size for lower production costs and lower connector costs.

## 8 What's New?

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2012#10#04 - Techsol New Product Announcement: [Oracle's eJRE Java SE Platform is now available on Techsol's Computer Modules and Products](#)





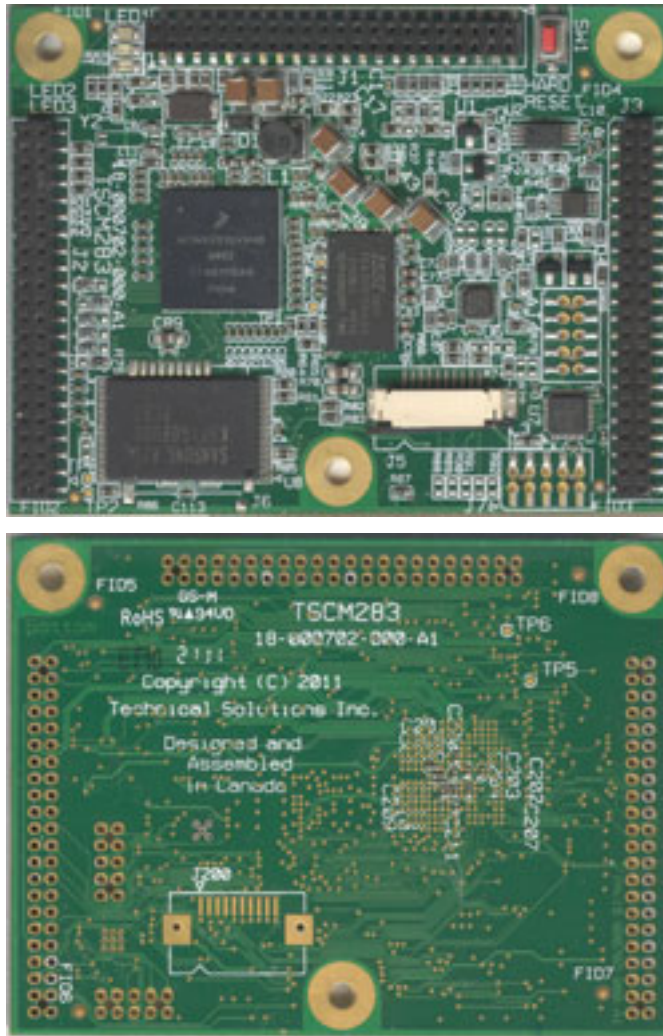




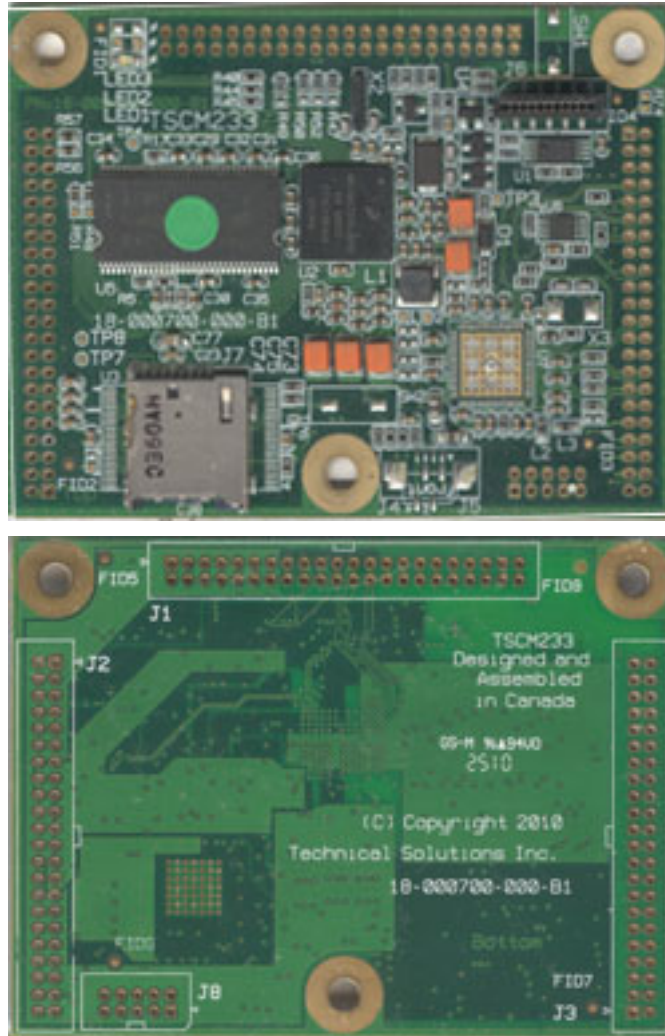
2012#09#18 - Techsol New Product Announcement: [Techsol's "Small Display" series of Touch-Screen Computers pack value into small space, at low cost](#)



2011#09#28 - Techsol New Product Announcement: [Techsol's Enduring Medallion ARM SOM Gains Integrated Ethernet Support](#)



2011#06#27 - Techsol New Product Announcement: [Techsol's TSCM#283 \(Touch Screen Computer Module\) enables low-cost HMI devices.](#)



2011#06#21 - Techsol New Product Announcement: [TSCM-233 computer module enables low-cost handheld devices.](#)

[Archived News](#)

