Prevas Innovation for Growth

Custom made processor module

"TO DEVELOP, OR NOT DEVELOP" - is a recurring question in every product development project. Prevas has helped our customers to bring more than 4000 products to the market and know that the answer has to be considered with respect.

For Miris, a company that develops, manufactures and sells equipment for analysis of liquids in foodstuffs, breast milk and medicines, the recommendation this time was to develop.

This success story shows how Prevas works with re-usables, and how one customer can benefit from Prevas total business within embedded systems.

INNOVATION FOR GROWTH

During 2011, Miris had a processor module that became obsolete to purchase. The classic question were raised: Shall we buy and adopt the rest of the instrument to a 3rd party module or shall we build a custom replacement?

Prevas were involved and with a analysis of the situation, Prevas could propose a competitive custom made solution based on the popular i.MX53 processor from Freescale and the latest operating system from Microsoft; Windows Embedded Compact 7. Parallell to this, Prevas had two similar projects within the Nordics using the same processor but with Android OS instead of Windows. During the design, selection of components, layout and board bring-up—these sibling projects exchanged know-how and best practice which meant that less modifications were needed in all three projects.

Within the Miris project, code and techniques were reused from earlier projects for system and peripheral testing, boot-loader adjustments, system software updates and USB communication with a PC.

PARTNERSHIP AND COLLABORATION

As always, the close collaboration between the development team and the customer made it possible to even further improve parts of the complete product.

In the end, Miris got a product that cost less than before, with improved stability, increased system performance and a processor module with long expected lifetime.

Other customers can like Miris benefit from Prevas portfolio of development components. This includes schematics, layout, OS adaption and customizations for Windows Embedded Compact 7, Android and OE-lite.

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Tech-stuff

- i.MX53 (Cortex-A8)
- DDR3
- System on module
- Ethernet
- USB Host
- USB Device
- Display
- UART
- Windows Embedded Compact 7
- Reference with Android and OE-lite
- Layout simulation with Hyperlynx

Windows® Embedded Silver Partner