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Prime News

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"We are excited about Advantech's continued development efforts around the Windows Embedded Family of products," said Keith White, Senior Director at Microsoft's Embedded Appliance and Platform Group. "Advantech is an important system integrator and their use of Micron's SyncFlash memory technology will extend an important set of solutions for customers that require near 'instant-on' capabilities for Microsoft's embedded operating systems such as 'Talisker,' the next-generation operating system for Windows CE and Windows XP Embedded."

Advantages of SyncFlash® Memory

"SyncFlash memory offers Advantech's single board computers many advantages, giving Microsoft a pathway to instant-on performance," said Dean Klein, Micron's VP of Market Development. "SyncFlash memory offers customers a simplified system design that is cost effective and a viable memory solution for a wide range of consumer and communications applications." The strengths of SyncFlash memory, developed by Micron Technology, play well into the needs of the embedded market. Realizing the increased importance of flash memory in the portable consumer electronic device market, Micron has given flash more functionality, using a DRAM-like internal architecture. SyncFlash memory replaces traditional flash that is typically used to store operating code. It also reduces the need for redundant DRAM because code does not have to be duplicated in DRAM for optimal performance. Instructions can be directly executed from flash. SyncFlash memory has a 16-bit data bus that supports burst-read operations at maximum speeds of 100MHz through a four-bank architecture, which allows users to update operating code without interrupting ongoing functions. SyncFlash memory provides SDRAM (100MHz) performance for flash memory, eliminates additional required DRAM memory and is priced comparable with standard flash.

Customers Know What They Want

Advantech is giving the market the first SBC using Micron's SyncFlash memory. Advantech is helping customers with special requirements to gain "instant-on" performance by dramatically decreasing the "cold-start" time needed to boot Microsoft Windows CE. Although Windows CE has long achieved such performance on RISC and other non-x86 architectures, realizing this performance on an x86 platform is key. Advantech's Windows CE software team is leveraging the efficiencies gained by using the fast SDRAM equivalent speeds of SyncFlash memory. Without having an OS to load and then reload, systems can reset themselves in as fast as 3 seconds. The stability of this system equates to the BIOS setup utility that is always the last and most dependable resort for recovering a PC system. Advantech's solution is an extremely reliable system that can operate smoothly with many hardware parts broken or disabled. A system like this is most useful for applications such as digital broadcasting client solutions. Using Advantech's solution, a broadcasting client can recover from a system crisis (reset) in 3 seconds while continuing to broadcast, as long as RAM, video and Ethernet are functioning. This is perhaps the best high available system solution for digital broadcasting systems today. The instant-on capability is also attractive for automotive, instrumentation, gaming, military

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and health care applications, where immediate access to profound PC functionality, high performance and a Microsoft Windows CE or Windows XP embedded operating system is desired.

Advantech's XIP Development Kit

Advantech will soon release an XIP Development Kit using "Talisker," the next generation of Microsoft's popular Windows CE OS. We will also offer a similar solution for Microsoft's new Windows XP embedded as well. Both these solutions will utilize Micron's SyncFlash memory technology. This development kit will include a SBC (hardware) with a 32 or 64MB SyncFlash device and XIP development tools, including special BIOS.

Contact Information

If near instant-on capability, the industry's most reliable operation and Microsoft's newest Windows CE "Talisker" OS interests you, contact your local Advantech sales representative for more information, or send an e-mail to epc@advantech.com.tw

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The PCM 3900 is ideal where data reliability is a must, and cost-effectiveness is a factor. Plummeting prices on IDE hard drives make RAID arrays the sensible choice for data-critical operations, far surpassing compact flash in cost effectiveness. And the PC/104 form factor makes these benefits directly accessible to standard embedded PC applications.
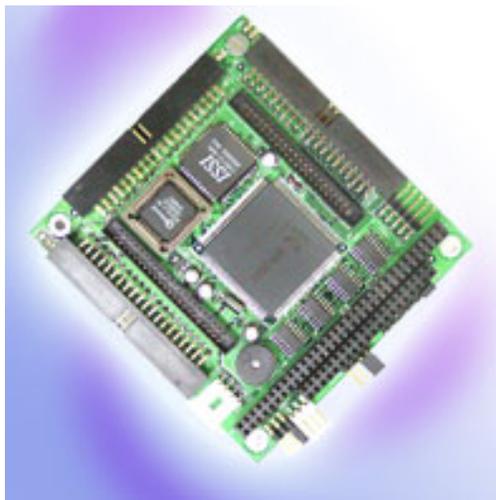
Why customers choose PCM-3900

- **OS Independent:** Supports all PC operating systems.
- **Plug and Play:** No need to install any device driver.
- **Data Mirroring:** RAID Level 1 data mirror function. Backs up data from one hard disk drive to another automatically; ensures safety of your OS and important data.
- **Hot Swap:** If one hard disk drive crashes, the PCM-3900 allows you to remove it at once without power off. Your system continues to work as usual during the swap process.
- **Auto Rebuild:** Under system execution, if a hard disk drive is replaced, the PCM-3900 auto rebuilds data to the new hard disk drive.
- **High Capacity:** No limitations on hard disk drive capacity.
- **Firmware Upgradable:** On-line WWW service provides the newest firmware version via Internet.
- **Easy Maintenance:** Special DIY design. End-user can handle normal errors, and reduce MIS loading.
- **Host Compatibility:** Supports IBM PCs, compatible with most mainboards and chipsets.
- **Hard Disk Compatibility:** Supports all major brands of IDE hard disk drives. Supports Multi-boot System: Such as System Commander, IBM OS/2 Boot Manager, etc.
- **Includes RAID Manager software:** Operates with RAID system allowing user to Monitor and Remote Monitor the status of RAID systems.

Potential applications

Industrial, financial, medical, military, academic, and other applications requiring high data reliability combined with economy, all find the PCM-3900 a welcome

addition to the PC/104 palette.

Available date: Available now.

Ordering Information

PCM-3900-00A1 PC/104 IDE RAID 1 Module

Contact Information

For more information about Advantech's PCM-3900, please contact your nearest Advantech representative, check our website at http://www.advantech.com.tw/epc or send an e-mail to epc@advantech.com.tw

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Availability

The MBPC-300-9576F will be available on Nov. 1st.

Contact Information

To place an order or obtain more information on this new addition to the MBPC chassis line, please contact your nearest Advantech representative, or e-mail us at epc@advantech.com.tw

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Availability

The PCA-6752F-00A3 and PCA-6752N-00A3 will be available on Nov. 1st.

Contact Information

For more information on this product phase out or any other Advantech products, contact your nearest Advantech representative, check out our website http://www.advantech.com.tw/epc or send an e-mail to epc@advantech.com.tw

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