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June 1, 2001 Vol.49

Prime News

New Geode™ GX1 SOM 144 System On Module Available Now

Tel: 886-2-2218-4567
Fax: 886-2-2218-3875
Contact the editor

Advantech's new **SOM-2353** is a super versatile Geode™ GX1-300 MHz System On Module for applications where power consumption, development cost and performance are all important. With an onboard, fanless GX1-300 processor, 64 MB onboard SDRAM, APM, superb expansion capability, and small 2.5" size, the **SOM-2353** is an ideal solution for high-end commercial and industrial applications where stability and reliability are essential.

Marketing

Advantech To Showcase Customer-driven Solutions at Computex 2001

Computex 2001 will run from June 4th to 8th in Taipei, Taiwan. Advantech will be there and is prepared to show its innovative solutions at Booth 210, 211, 232, 233 in Exhibition Hall 2.

Recent News

Prime News

■ Advantech eliminates cumbersome cables and gives you compact flexibility!

New Product

■ Web-2000 All-In-One StrongARM® Processor

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May 15, 2001
May 15, 2001
April 15, 2001
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Other News

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A Strong Platform to Build On

The low power consumption and fanless operation of the SOM-2353, allow this module to control a variety of applications such as POS devices, kiosks, HMI devices, traffic control devices, set top boxes, thin client devices, industrial controllers, navigational instruments (GPS) and building automation. Advantech also offers a Windows CE 3.0 Development Kit that combines a preloaded Windows® CE 3.0 OS in Flash memory along with the SOM-2353 CPU module and development board.

One of Many SOM 144 Solutions

The SOM 144 products have compressed many features usually found on larger control boards into a 2.5" size (68 mm x 100 mm). These plug-in CPU modules are designed to help customers bring their CPU-based embedded products to market fast. Advantech offers our **30 Days Design To Order Service (DTOS™)** that guarantees 3 product samples within 30 days of project acceptance. This is a way Advantech is giving our customers a cost-effective and extremely fast way to meet their product and business needs.

Summary of Features and Specifications of the SOM-2353

- **CPU:** Geode™ GX1-300 CPU with 16 MB SDRAM on board
- **Chipset:** NS5530A
- **RAM memory:** 64 MB SDRAM on board
- **VGA:** Supports VGA and VESA, up to 1280 x 1024 @ 8 bpp and 1024 x 768 @ 16 bpp resolution, up to 4 MB shared memory
- **BIOS:** AWARD 256 KB Flash Bios

- **PCI/IDE/Serial Port/USB/AC97/KB/Mouse** (SOM 144/PCI V1.4 at SODIMM socket)
  - I/O expansion: 3 master PCI bus
  - Enhanced IDE HDD interface: Up to 2 IDE HDD
  - Serial ports: Two serial ports (TTL)
  - Keyboard & PS/2 mouse: Supports standard PC/AT KB/mouse
  - Two independent USB interfaces (open HCI) compliant
- AC97 Codec interface: Specification revision 1.3, 2.0 and 2.1 compliant
- **VGA/irDA/FDD/Printer/ATX Power/GPIOx4** (SOM 144/PCI V1.3 80 pins 0.5 mm board to board)
  - 2D graphics Accelerator, supports VGA and VESA
  - Display memory: 1.5 ~ 4 MB shared
  - irDA
  - FDD/parallel port SPP, ECP and EPP support
- **Power connector :** 2 pins
- **Operating Temp :** 0 to 60° C (32 ~ 140° F)

Ordering Information

These products are available now. To place an order use the following part number information:

SOM-2353-6400-GX1 SOM 144/PCI Module

SOM-2353A-6400-GX1 SOM 144/PCI Module w/LAN/SSD Socket

SOM-DB2300-Development board for SOM 144/PCI

SOM-DK2353-C01-Windows CE 3.0 Development Kits for SOM-2353(A)

Contact Information

For more information about our products, please contact your nearest Advantech representative or look at our website at http://www.advantech.com.tw/SOM or send us an e-mail to som@advantech.com.tw

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A Wide Range of ECG Products Displayed

Advantech Embedded Computing Group will present its new System On Module products along with 30 Days DTOS™ (Design-to-order Service) to get your products to market fast.

System On Module, including SOM 144 and SOM-ETX form factors, is a ready-to-use, powerful and reliable CPU platform with various CPU choices, scalable from Geode™ GX1, Transmeta®, StrongARM® to Pentium® III. SOM can allow system integrators to save 80% of regular development time and costs. The other 20% work to accomplish the embedded CPU project can be done by the customer or utilize Advantech's 30-days DTOS™ to speed project completion.

ECG will also launch a group of ePlatforms with low power consumption and multiple LAN functions that are perfect for VPN, firewall, gateway and other internet applications. For system solutions, we provide two web-based controllers housed in a solid aluminum chassis and embedded System On Module inside. The Web-2143, with triple-LAN functions and Linux OS makes a good firewall device and the Web-2040 with VGA & LAN and Windows CE 3.0 is a good DMZ device.

For board solutions, we present one 5.25" Biscuit PC with Triple LAN and Linux OS as a high- performance firewall, one 5.25" Biscuit PC with low power Pentium-266 CPU and Windows NT Embedded as an authorized client, one 3.5" Biscuit PC with dual LAN and Windows CE 3.0 as an intranet, and one 3.5" Biscuit PC with low power Geode GX1 CPU and Windows CE 3.0 as a user client.

Advantech's Web Appliance Group will highlight its new ultra-slim and high-performance Panel Computer the PPC-S153T at this show. The PPC-S153T includes all the features of a powerful computer packed into a slim and stylish housing. Perfect for space-sensitive applications, this product occupies less that 50 mm in depth and can support an Intel Pentium III CPU up to 1 GHz and has a 3D display engine with 8 MB VRAM. It also supports front panel built-in speakers making it a compelling solution for multimedia applications. In order to fit different integration needs, the PPC-S153T provides flexible mounting options. It can be mounted against to the wall, fixed on a VESA standard swing arm (75 mm x 75 mm), or simply placed on an elegant desktop stand. The PPC-S153T is both industrial and medical certified to ensure its durability and safety to the users.

eHome, Your Internet Home

Advantech and its subsidiary - EHome21 Co., Ltd, will demonstrate a total solution for building up an eHome liftstyle at Computex. The key roles of this demonstration are Advantech's EH-7100 Multi-functional Home Terminal and its subsidiary's EHome21 ServiceSuite™. These two construct a fully functional eHome system

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which linked the back-end systems of home security, home e-commerce, education and amusement, on-line information and service system; together with the front-end home automation, home security/monitoring system.

This solution successfully serves two major functions, one-touching to the Internet and coupling home appliances. Its seamless combination has already been field approved and adopted in Taiwan with the alliance support provided by the members of the EHome21 Alliance Group including Chung Hwa Telecom, TAIWAN-SOK Shing Kong Security Co., Ltd., Health Taiwan.Com etc.

Contact Information

For more information on these products or any other Advantech embedded products, contact your nearest Advantech representative or e-mail us at epc@advantech.com.tw today. See you at Computex!

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