

New Product

[PCM-3663 PC/104-plus Dual Ethernet Module Adapts to Application Needs](#)

Advantech's Embedded Computing Group is introducing a powerful new PC/104-plus dual ethernet module. Designed to support the ever increasing number of network connected embedded products on the market, the PCM-3663 can be applied to any size form factor CPU board employing the PC/104-plus throughput connectors.



Product Update

[PCM-9550 Windows NT Embedded Evaluation Platform Available Now](#)

PCM-9550FNE-000 is a "total solution" 5.25" single board computer, pre-configured with a Windows® NT Embedded 4.0 image for the PCM-9550F-F0A1 SBC. Advantech's Windows NT Embedded Evaluation Platform supplies a complete set of components to enable the rapid prototyping and development of your Windows NT Embedded projects.



Marketing News

[ESC West and System On Module Seminar, April 10th -12th, 2001](#)

In joining our customers in the constant effort to get their dynamic CPU-based products to market fast, Advantech, Intel and Microsoft cordially invite you to join our System On Module Seminar. Advantech's System On Module products are CPU system modules that plug onto an easily designed application carrier board.



Problems, comments, suggestions? Please contact the [editor](#)

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New Product

- [PCM-3350 Geode™ GX1-300 PC/104 Module Brings Fanless, High Performance Operation to its Product Class](#)

Product Update

- [Advantech's WebCon Series is coming to the eWorld!](#)

- [PCM-9574 Upgrades With The Times](#)

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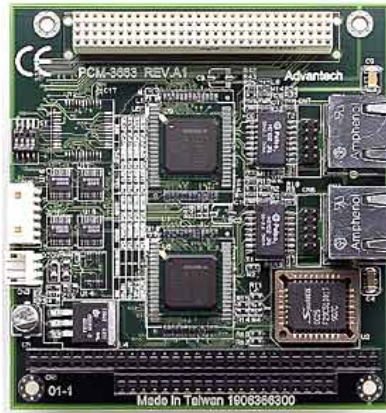
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New Product

PCM-3663 PC/104-plus Dual Ethernet Module Adapts to Application Needs

Advantech's Embedded Computing Group is introducing a powerful new PC/104-plus dual ethernet module. Designed to support the ever increasing number of network connected embedded products on the market, the PCM-3663 can be applied to any size form factor CPU board employing the PC/104-plus throughput connectors. The PCM-3663 can provide a single or dual ethernet configuration using combinations of Intel's 82559ER or Realtek's RTL8139 ethernet chipsets (see ordering information below), and even offers the Intel 82559 chipset as an option. The PCM-3663 provides full 32-bit performance, PCI bus capability and is in full compliance with IEEE 802.3u 100Base-T specifications and IEEE 802.3x Full Duplex Flow Control. The PCM-3663 is your off-the-shelf solution that can immediately provide one or two ethernet ports to your embedded system.



The PCM-3663 is the perfect complement for two Advantech 5.25" EBX form factor products. The EBX form factor utilizes a PC/104-plus connector. The [PCM-9572F](#) and [PCM-9550F/M](#) both have the ability to be used as DMZ devices (3 ethernet ports) when the PCM-3663 is used on their PC/104-plus connectors. The PCI throughput from the PCM-3663 PC/104-plus connector gives the necessary speed and transfer rate for today's data and graphic intensive support.

Great Flexibility and OS Support

The PCM-3663 module includes a built-in 10 pin box header and RJ-45 connectors. Three diagnostic LEDs indicate the operating status of the module and the network. You can define LEDs according to the application. The PCM-3663 comes with drivers for a wide variety of networks and operating systems. An optional boot ROM lets you boot a remote station automatically from a server, making hard or floppy disks unnecessary. The PCM-3663 also provides Wake-ON-LAN functionality.

Summary of Features and Specifications of the PCM-3663

- **Chipset:** Intel 82559 ER (optional Intel 82559) or Realtek 8139, both PCI 10/100 Base-T
- **Port:** Single or twin Ethernet port
- **Network port:** 10 Mbps IEE 802.3, 100 Mbps IEEE 802.3u, RJ-45 connector
- **Compatibility:** PCI version 2.2, 10/100 Mbps CSMA/CD 10/100 Mbps transceiver
- **Dimensions:** (L x W): 96 mm x 90 mm (3.8" x 3.5")

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- [Advantech Welcomes All to System On Module Seminar and Embedded Systems Conference](#)

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- **Weight:** 84 g (.185 lb)
- **Operating temperature:** 0° ~ 60° C (32 ~ 140° F)
- **Storage temperature:** -40° ~ 85° C (-40 ~ 185° F)
- **Operating humidity:** 0% to 95% relative humidity, noncondensing
- **Power supply voltage:** + 5 V \pm 5 %

Contact Advantech Today

The **PCM-3663** is available for order now. Use the following part numbers for ordering or inquiries.]

PCM-3663-00A1: 10/100 Mbps Twin Realtek 8139 Ethernet module (optional)

PCM-3663-01A1: 10/100 Mbps Single Realtek 8139 Ethernet module

PCM-3663-02A1: 10/100 Mbps Twin Intel 82559 ER Ethernet module

PCM-3663-03A1: 10/100 Mbps Single Intel 82559 ER Ethernet module (optional)

Contact Advantech about the PCM-3663 PC/104-plus dual ethernet module or any other embedded solutions today or get in touch with your local Advantech representative to find out more. You can also send us an e-mail to epc@advantech.com.tw to get more information.

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Product Update

PCM-9550 Windows NT Embedded Evaluation Platform Available Now

Advantech's Windows NT Embedded Evaluation Platform supplies a complete set of components to enable the rapid prototyping and development of your Windows NT Embedded projects. There is no need to waste time and resources on developing on-board component definition file (.kdf) or using the Target Designer to create the Windows NT Embedded Image. Advantech has done that for you. All you have to do is develop and install your applications.



A Very Strong Platform

PCM-9550FNE-000 is a "total solution" 5.25" single board computer, pre-configured with a Windows® NT Embedded 4.0 image for the PCM-9550F-F0A1 SBC. This product comes with the following:



- **PCM-9550F-F0A1** (EBX onboard Intel® low power Pentium® 266 MHz processor-based SBC with CPU, Audio, VGA/LCD, and Ethernet)
- 48 MB CompactFlash card with pre-configured Windows NT Embedded Image
- Windows NT Embedded 4.0 Class 2 English version License
- Direct I/O sample utility and source code
- User Manual

The pre-configured Windows NT Embedded Image includes the following embedded enabling features:

- Automatic log-on
- Supports Flash storage
- Telnet remote management
- Microsoft® Windows® NT Embedded 4.0

Windows NT Embedded 4.0 is an embedded OS and targets mid-end and high-end embedded solutions. It is a modular and "componentized" Windows NT 4.0. The code base is Windows NT 4.0 and Service Pack 5.

Windows NT Embedded 4.0 Benefits

- Same Win32 API as Windows NT 4.0
- Proven, robust Windows NT 4.0 code base

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- Familiar Windows application development tools (e.g. Visual C++ and Visual Basic)
- Smaller footprint than Windows NT 4.0 and can be stored in Flash storage
- Embedded features (e.g. Telnet remote management)

Specifications

Hardware CPU: Embedded Intel® low power Pentium® processor with MMX technology 266 MHz

BIOS: Award 256 KB Flash memory

System Memory: One DIMM socket accepts 32 MB up to 256 MB SDRAM 2nd level cache: 512 KB SRAM

IDE interface: Two channels, supports up to four EIDE devices. BIOS auto-detect, PIO Mode 3 or Mode 4, UDMA/33 transfer

FDD interface: Supports 2.5" floppy drive

Serial ports: Four serial ports

Parallel port: Supports SPP/EPP/ECP mode Digital I/O: 8 TTL digital inputs and 8 TTL outputs, or 6 TTL outputs and 2 isolated open collector outputs

Keyboard/mouse connector: Supports standard PC/AT keyboard and a PS/2 mouse

Watchdog timer: 62 level timer intervals

Software: Custom Windows NT Embedded 4.0 Image: Class 2 (Workstation with display level) English version I

Automatic Log-on feature

Telnet remote management

Supported devices by the pre-configured Windows NT Embedded Image

Keyboard: PS/2 Mouse

Display: C&T 69000 (CRT and LCD)

Floppy drive

IDE hard drive and CompactFlash card

IDE CD-ROM

Network: Realtek RTL8139

Audio: ESS Allegro ES1989

Serial port: COM 1, 2, 3 and 4

Parallel port: LPT1

Digital I/O & Watchdog timer

Ordering Information

PCM-9550FNE-000: PCM-9550F-F0A1 SBC with Windows NT Embedded 4.0

Class 2 English on 48 MB CompactFlash Card

Inquire today

Contact Advantech today about and let us explain how the PCM-9550F with Windows NT Embedded 4.0 can enhance your embedded applications. E-mail us at epc@advantech.com.tw or call your local Advantech representative to find out more.

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ESC West and System On Module Seminar, April 10th -12th, 2001



System On Module Seminar

The Fastest Way to Get your Product to Market

Advantech, Intel & Microsoft representatives on hand to present this newest technology and answer your important questions

Date: Wednesday, April 11, 9:30 am - 10:30 am
Venue: Argent Hotel, San Francisco, 50 Third Street
 San Francisco, CA 94103

Agenda

Opening	Advantech	9:30 -9:35 am
Low Power CPU Solution	Intel	9:35 -9:50 am
Windows Powered Embedded Solution	Microsoft	9:50 -10:05 am
Advantech's System on Module Solution	Advantech	10:05 -10:30 am

Seminar For System On Module

In joining our customers in the constant effort to get their dynamic CPU-based products to market fast, Advantech, Intel and Microsoft cordially invite you to join our System On Module Seminar. Advantech's System On Module products are CPU system modules that plug onto an easily designed application carrier board. This carrier board can either be customer designed or done with Advantech's help. This technology allows our customers to reduce both design costs and business risks, allowing them to better focus on their intended application. This seminar can better explain how SOM can help. Advantech will also prepare a series of System On Module demonstrations that better explain Advantech System on Modules products.

We'll See You There!

See this along with all our other products at **ESC West , April 10th - 12th, 2001**. Please visit us at **booth 1640**. Go here (<http://www.esconline.com>) to find out more about the Embedded Systems Conference in San Fransisco. Or contact Advantech at epc@advantech.com for more information. We look forward to your participation.

EmbeddedSystems
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