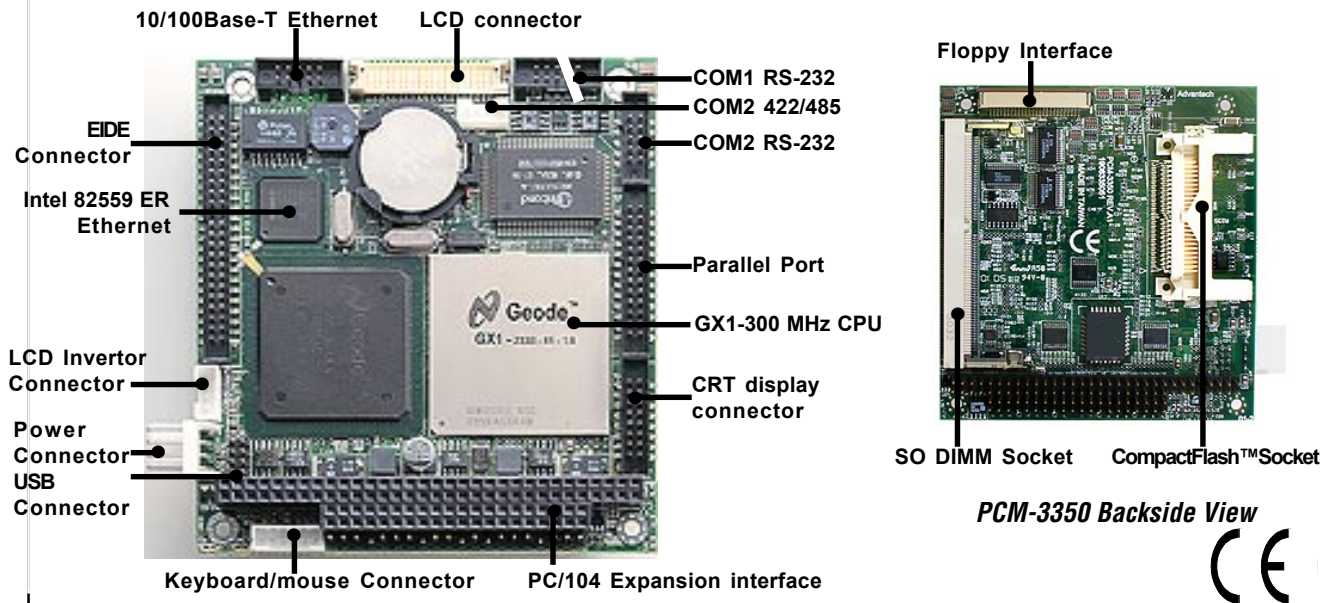


# PCM-3350

## Geode GX1-300 based Module with Ethernet and On-board LCD controller



### Introduction

The PCM-3350, with its GX1-300 MHz onboard processor and low power, fanless performance, represents Advantech's next generation of high speed, low power PC/104 family of products. The stable Geode processor, onchip PCI VGA for VGA and TFT LCD support and rock solid Intel®82559 ER High performance Ethernet chip, provide amazing power and functionality. The ability to stack a full range of PC/104 modules such as sound, PCMCIA, GPS, additional LAN, plus many others, greatly expands the range of applications.

The PCM-3350 has all the power and features indicative of larger CPU control boards, but checks in at the standard PC/104 size of 96 mm x 90 mm. It has 256 KB Flash memory, a 144-pin SODIMM socket which can accept up to 128 MB SDRAM, and support for up to two EIDE devices. It supports up to two FDDs plus one serial RS-232 port and one RS-232/422/485 port. There are two USB 1.0 compliant ports, one parallel port and a mini-DIN connector that supports a standard PS/2 keyboard and mouse. There is a CompactFlash™ socket that can act as an emulated hard drive as well. An 18-bit TFT LCD panel is supported with flat panel display resolution up to 1024 x 768 @ 18 bpp. Non-interlaced CRT monitor resolutions up to 1024 x 768 @ 24 bpp are also supported. Along with APM 1.1 power management, an infrared port and watchdog timer support, the PCM-3350 has all the features that make it a full-featured performer in any computer class.

### Specifications

- **CPU:** Embedded Low power NS Geode GX1-300 MHz processor
- **BIOS:** AWARD 256 KB Flash memory
- **System memory:** One 144-pin SODIMM socket accepts up to 128 MB SDRAM
- **Enhanced IDE interface:** Supports up to two EIDE devices. BIOS auto-detect, PIO Mode 3 or Mode 4 transfer, Ultra DMA33 mode (ATA-4) up to 33 MB/sec
- **FDD interface:** Supports up to two FDDs/2.5" FDD
- **Serial ports:** One serial RS-232 port, one serial RS-232/422/485 port
- **Parallel port:** One parallel port, supports SPP/EPP/ECP mode
- **Infrared port:** Shared with COM 2. Transfer rate up to 115 kbps
- **Keyboard/mouse connector:** Mini-DIN connector supports standard PS/2 keyboard and mouse
- **Watchdog timer:** 1.6 sec. intervals/VGA Interface

#### VGA function

- **Chipset:** NS CS5530
- **Display memory:** 1 ~ 4 MB share memory, set in BIOS
- **Display type:** Supports CRT and TFT LCDs. Able to display both CRT and flat panel simultaneously
- **Flat-panel display mode:** Panel resolution supports up to 1024 x 768 @ 18 bpp. Supports 18-bit TFT LCD panel
- **CRT display mode:** Non-interlaced CRT monitor resolutions up to 1024 x 768 @ 24 bpp

#### Ethernet controller function

- **Chipset:** Intel 82559 ER
- **Ethernet interface:** PCI 10/100 Mbps Ethernet. IEEE 802.3 U protocol compatible
- **Connection:** On-board 2 x 5 2.0 mm connector
- **I/O address switchless setting**
- **Built-in boot ROM**

#### Solid state disk

- Supports CompactFlash™ cards

#### Mechanical and Environmental

- **Dimensions: (L x W):** 96 mm x 90 mm (3.77" x 3.54")
- **Weight:** .11 kg (.24 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 ± 5 %
- **Power requirements:** 2.0 A + 5 V, Max w/ GX1-300 MHz CPU & 64 MB

### Ordering Information

- PCM-3350F-G0A1: PC/104 NS Geode GX1-300 MHz CPU Module

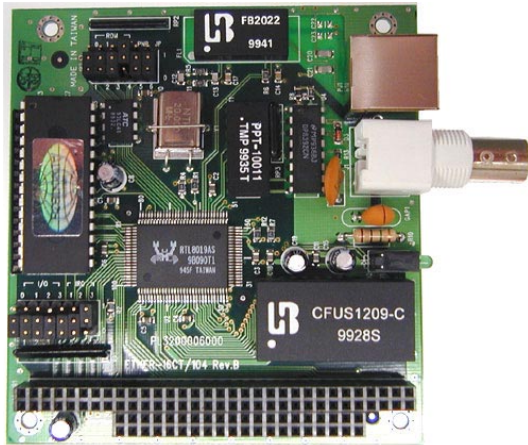
# PC/104

PCM-3664

**Jumperless 10Base-T Ethernet  
Module**

PCM-3643

**High Speed 8-port RS-232  
Module**



## PCM-3664



The PCM-3664 is a high performance 16-bit jumperless Ethernet interface module that attaches to the PC/104 connector on your CPU card or PC/104 CPU module. The module automatically senses whether it is connected to an 8-bit or 16-bit PC/104 system. The PCM-3664 fully complies with IEEE 802.3 10 Mbps CSMA/CD standards and is 100% Novell NE2000 compatible. The module includes a built-in 10Base-T transceiver and RJ-45 connector. An onboard BNC connector supports 10Base-2. Two diagnostic LEDs indicate the operating status of the module and the network.

### Specifications

- Chipset: Realtek 8019
- Hardware and software compatible with Novell NE2000 adaptor
- 8-bit, 16-bit or auto-sending
- Remote boot ROM socket for diskless operation
- Built-in 10Base-T transceiver for unshielded twisted pair cabling up to 100 m
- Onboard 32 K memory for high-performance multipackage buffer
- Software drivers for most popular network environments
- BNC connector on board
- AUI connector supports external MAUs
- NDIS 3.0 miniport driver for Windows NT 3.1, Windows NT 3.5 and Windows 95, NDIS 4.0 miniport driver for Windows 98
- OS2 driver
- Netware server driver
- Built-in IEEE 802.3 10 Mbps CSMA/CD 10Base-T, 10Base-2
- Power consumption: +5 V @ 400 mA (typical)
- Power requirement: +5 V @ ± 5% tolerance on power supply
- Size/Weight: 96 mm x 90 mm (3.8" x 3.5"), .088 kg (.194 lb)
- Operating Temperature.: 0 ~ 70° C (32 ~ 158°F)
- Storage Temperature: -40 ~ 85° C (-40 ~ 185°F)
- Operating humidity: 0 ~ 90% Rel Humd. ,noncondensing

### Ordering Information

- PCM-3664-00B1: PC/104 10 Mbps Single Ethernet Module

## PCM-3643



The PCM-3643 is a PC/104-compatible 8 port High-Speed RS-232 serial interface module. It works with PC/104 CPU modules or CPU cards which accept PC/104 expansion modules. It provides eight independent serial interfaces, accessed through male DB-9 connectors. The module's industry-standard 16C550 asynchronous communication chip is fully programmable. The module requires no special commands or control codes if you use the standard COM1 ~ COM8 port addresses, and the IRQ sharing capability can save your computer's resources.

### Specifications

- Chipset: Standard 16550, 16650 or 16750 compatible chipsets for serial ports
- Channel: 4/8 port RS-232 support
- IRQ: 3, 4, 5, 7, 9, 10, 11, 12
- Baud rate: 50 ~ 115, 200 bps
- Charter length: 5, 6, 7 or 8 bits
- Stop bits: 1, 1.5, 2
- Parity: none, even, odd
- Data signals: TxD, RxD, RTS, CTS, DTR, DSR, DCD, RI, GND
- Power consumption: +5 V @ 400 mA (typical)
- Power requirement: +5 V @ ± 5% tolerance on power supply
- Size/Weight: 96 mm x 90 mm (3.8" x 3.5"), .084 kg (.185lb)
- Operating Temperature.: 0 ~ 60° C (32 ~ 140°F)
- Storage Temperature: -40 ~ 85° C (-40 ~ 185°F)
- Operating humidity: 0 ~ 90% Rel Humd. ,noncondensing

### Ordering Information

- PCM-3643-04A1: PC/104 4 port RS-232 Module
- PCM-3643-08A1: PC/104 8 port RS-232 Module

Note: All features and specifications are subject to change without notice.