

Features

General Features:

Architecture:

PC/AT Architecture

Dimensions:

Compliant with the PC/104 standard

Processor:

AMD™ Geode™ GX466 333MHz

Memory:

128MB DDR soldered

Solid State Disk:

Connector for a secured Disk-On-Module

BIOS Flash:

1MB 8bit +5V Flash EPROM

Interfaces:

- IDE Controller, 66MB/second UDMA ATA-5
- Integrated display controller:
 - TFT or VGA Interface
 - Up to 1600 x 1200 x 24 BPP at 85Hz
- 4 USB 2.0 ports
- Audio: AC97 v2.3 compliant
- Ethernet (Realtek RL8139D):
 - 10/100 Mbps with N-way Auto-negotiation
- Serial ports:
 - 1 RS232
 - 1 software configurable RS232/422/485
- Parallel port
- AT Keyboard input
- PS/2 Mouse input

BUS:

ISA PC/104 compliant

Power Supply:

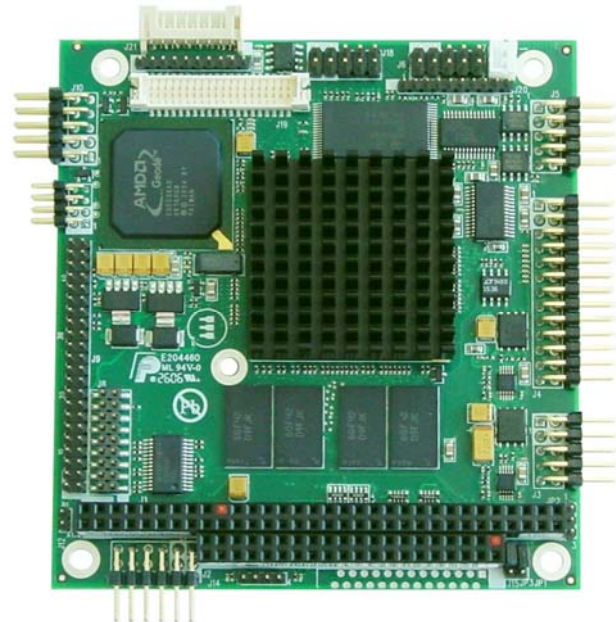
Single +5V DC +/- 5%

RoHS:

Fully RoHS (2002/95/CE) Compliant.

Supported Operating Systems:

- Windows CE®
- Windows XPE®
- Linux®



The CPU-1233 is a fully RoHS compliant replacement for the popular CPU-1232 PC/104 module. It now features the AMD™ Geode™ GX466 333MHz Pentium® MMX class processor and is Windows CE® & XPE® and Linux® compatible.

Integrated peripheral connections include: 4 USB 2.0 ports, TFT & VGA, 2 serial ports, Parallel port, Fast Ethernet, IDE, AC97 sound port, AT keyboard and PS/2 mouse. Onboard features also include a Real Time Clock and Watch Dog timer (configurable from 2 to 255 seconds / minutes).

The module is available in standard (0°C to +60°C) or optionally with extended (-40°C to +85°C) temperature range. For improved reliability when used in mobile applications or harsh environments prone to high humidity, shocks and vibrations, the CPU-1233 has the RAM memory (up to 128MB DDR) soldered directly onto the board and a dedicated DOM (Disk-On-Module) connector is supplied to allow users to integrate a secured memory device.

The BIOS is stored in a 1MB Flash EPROM and is re-programmable onboard, set-up parameters are saved within the same Flash allowing the module to retain the data without having a backup battery.

To minimize development times, a complete ready-to-use hardware development kit is available; accessories include Ethernet & USB adaptors, interface cables and power supply.

CPU-1233

Embedded Enhanced Bios Features

- The onboard Flash-memory has a capacity of 1 MB. It is used for the BIOS and its extensions. A part of it can be also used as a Read-Only-Disk, to store an OS as well as user Programs/Data.
- SSD support as Read or R/W disk
- Watch Dog management
- Non-volatile set-up configuration data storage in Flash.
- Virtual Peripheral (VP) support: to allow users to redirect peripheral devices used by the module such as keyboard, display and boot device to a remote host computer.

Accessories

- TP RJ45 Ethernet adapter
- AC97 adapter kit
- USB adapter kit
- Flat Panel adapter kit
- IDE to ATA adapter kit
- 2mm to 2.54mm IDE cable
- Standard interface Cable kit

About Eurotech

EuroTech delivers embedded computer systems for high capability and low power applications, networking and wearable computing solutions, and application framework middleware for multimedia, industrial, transportation, medical, and wireless applications. EuroTech platforms allow OEM and enterprise customers to focus on their core revenue-generating products and services and get to market quickly.

Physical Characteristics

DIMENSIONS	90 x 96 mm (3.6" x 3.8")
HEIGHT	15 mm (0.6")
POWER SUPPLY	Single +5V DC +/- 5%
POWER CONSUMPTION	< 6 Watts
OPERATING TEMPERATURE	0 ~ +60°C standard -40°C ~ +85°C optional

Options

- Custom BIOS
- Fast BIOS BOOT
- Extended Operating Temperature Range
- Custom Connectors

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ETH_CPU-1233_DS091008

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