

CPU-1433

GEODE GX466 333MHZ SBC WITH CRT/LCD, 4X USB 2.0 AND FAST ETHERNET (ROHS)

Features

Architecture:

PC PCI-Architecture with ISA-bus

Dimensions:

Compliant with the PC/104-Plus standard

Processor:

AMD™ Geode™ GX466 333MHz

Memory:

128MB on board soldered DDR

Solid State Disk:

Connector for a secured Disk On Module

Operating Systems:

Windows CE® & XPE® and Linux®

BIOS Flash:

1MB 8bit +5V Flash EPROM

Interfaces:

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

BUS:

PCI/ISA PC/104-Plus compliant

Power Supply:

+5V only



General Description

The CPU-1433 is a fully RoHS compliant, fanless, low power Pentium® MMX-class PC/104-Plus compliant CPU module. This +5V only module is based on the AMD™ Geode™ GX466 333MHz processor core with 128MB of on-board soldered DDR RAM. This single board embedded computer module is compatible with Windows CE® & XPE® and Linux®.

Integrated peripheral interfaces include: 4 USB 2.0 ports, TFT & VGA, 2 serial ports, Parallel port, Fast Ethernet, IDE, AC97 audio port, AT keyboard and PS/2 mouse. Data storage reliability is a critical issue in embedded systems therefore the CPU-1433 supports an onboard integrated secured DOM (Disk On Module) connected to the IDE-interface. This is the ideal solution for IDE mass storage in harsh mechanical or environmental conditions. Special embedded features include non-volatile storage of set-up parameters, a Real Time Clock and hardware Watch Dog timer that is configurable to operate from 2 up to 255 seconds or minutes. The BIOS is stored in a 1MB Flash EPROM and is re-programmable onboard, the BIOS set-up parameters are stored in the BIOS Flash allowing the module to retain the data without a backup battery.

The CPU-1443 module has been designed to resist harsh environmental conditions; it is resistant to high humidity, vibrations, and mechanical shock. The module can be qualified to operate in an extended temperature range of -40 to +85°C.

A complete easy-to-use hardware development kit is available to speed up hardware and software development. Available accessories include Ethernet & USB adaptors, interface cables, power supplies etc.

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 the 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

Options

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

Physical Characteristics

- **Dimensions:** 90 x 96 mm (3.6" X 3.8")
- **Thickness:** 15 mm (0.6")
- **Power supply:** +5V only
- **Power consumption:** <6 Watts
- **Operating Temperature:** 0 ~ 60 °C
(Extended Temperature range versions available: -40 ~ +85°C)



Tel. +39 0433 485 411

Fax. +39 0433 485 499

E-mail: sales@eurotech.it

Web: www.eurotech.it

Note. The information in this document is subject to change without notice and should not be construed as a commitment by EuroTech S.p.A. While reasonable precautions have been taken, EuroTech S.p.A. assumes no responsibility for any error that may appear in this document. All trademarks or registered trademarks are the properties of their respective companies.