



## CPU-1472

PENTIUM® M FANLESS SBC WITH 8X USB 2.0 PORTS (RoHS)

### Features

**Architecture:**

PC/104-Plus compliant

**Processor Availability:**

- Intel® Pentium® M 1GHz, 2MB L2 cache, 400MHz FSB
- Intel® Celeron® M 1GHz, 512KB L2 cache, 400MHz FSB

**Chipset:**

Intel® i855GME

**System Memory:**

512MB DDR, 266MHz (PC2100), soldered onboard

**Supported Operating Systems:**

WinCE®, WinXPE® and Linux®

**BIOS Flash:**

1MB Flash EPROM

**Interfaces:**

- IDE ATA 100 Controller
- Serial ports:
  - 1x RS-232
  - 1x RS-232/422/485
- 8x USB 2.0 ports:
- 10/100 Mbps Ethernet (Intel® 82562 chipset)
- Graphic controller with analog VGA and Flat Panel LVDS interface
- AC97 audio interface
- Keyboard and Mouse

**Bus:**

- PC/104-Plus (PCI)
- PC/104 (ISA)

**Watchdog:**

2-255 seconds / minutes

**Power Supply:**

Single +5V DC



### General Description

The CPU-1472 is an embedded RoHS compliant board based on two modules: a mezzanine CPU module combined with a PC/104-Plus form factor carrier.

The mezzanine CPU module features the processor and its Intel® i855GME chipset. The available processors include the Intel® Pentium® M 1GHz (having 2MB L2 cache and 400MHz FSB) or the Intel® Celeron® M 1GHz (having 512KB L2 cache and 400MHz FSB). The system comes with 512MB DDR, 266MHz (PC2100), soldered onboard. No active cooling is required to operate within the standard and extended temperature ranges. The carrier implements all the connections to the external world, including 8 USB 2.0 ports, 1 Fast Ethernet interface (10/100Mbps), 2 Serial ports, Analog VGA and Flat Panel LVDS outputs, 1 AC97 interface, Keyboard and Mouse connectors and an IDE controller that supports IDE Flash device (Disk-On-Module, Compact Flash and Flash Disk). The carrier also performs the connections for the ISA and PCI bus enabling the CPU-1472 to stack on top of a PC/104-Plus system. The carrier provides support for Watchdog management and Real Time Clock (external backup battery) and can be customized to match specific customer needs.

The BIOS for the module is embedded and is located in a 1MB Flash EPROM, it is fully re-programmable onboard. The set-up parameters are saved in Flash to allow the module to operate without a battery.

### Embedded Enhanced BIOS

- BIOS with enhanced embedded features can be easily customized and upgraded to match the specific system configuration.
- Watchdog management.
- Set-Up in Flash in order to avoid Set-Up corruption in field.
- Virtual Peripheral Support (V.P.S.): this mode allows users to bootstrap from the parallel or serial ports and redirect Keyboard, Video and Floppy Disk on the serial/parallel ports before booting the Operating System. It is also possible to redirect any of these peripherals as default setting.
- Etherboot support: this feature allows the system to boot up from a LAN connection for diskless operation.

### Physical Characteristics

- **Dimensions:** 90 x 96 mm (3.6" X 3.8")
- **Height:** 18.6 mm (0.7")
- **Power supply:** Single +5V DC +/- 5%
- **Operating Temperature:** 0 ~ + 60 °C (standard)  
-40 ~ + 85 °C (extended)
- **Humidity:** Up to 95% non-condensing

### Options

- Custom BIOS with embedded features
- Extended operating temperature range
- Custom carrier
- Conformal coating
- Custom Connectors

### Accessories

- RJ45 Ethernet adapter
- AC97 adapter
- Digital Flat Panel LVDS receiver
- USB adapters
- Cable Set Kit
- Development Kit

### Power Management

- Temperature monitor with hardware thermal management circuit
- Power fail Reset (safe operation between 4.75V and 5.25V)



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