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Find the *Curtiss-Wright / Parvus CPU-1474* at our website: ***Click HERE***

CPU-1474

Celeron® M Fanless SBC with Gigabit & Fast Ethernet

Features

General Features:

Architecture:
- PC/104-Plus compliant

Processor Availability:
- 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
- 4x USB 2.0 ports
- Gigabit Ethernet (Intel® 82541 chipset)
- 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

RoHS:

- Fully RoHS (2002/95/CE) Compliant



The CPU-1474 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 Intel® Celeron® M 1GHz (having 512KB L2 cache and 400MHz FSB) processor and its Intel® i855GME chipset. 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 4 USB 2.0 ports, 1 Gigabit Ethernet interface (1000/100/10Mbps), 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-1474 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.

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CPU-1474

Embedded Enhanced BIOS

- Standard Phoenix BIOS
- Boot Watchdog Management
- Set-Up in Flash in order to avoid Set-Up corruption in field
- Remote console redirection: allows a system with no keyboard and no video hardware to transmit video and keyboard data to a host system via the serial port
- Etherboot support: 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%
POWER CONSUMPTION	9.5W typical
OPERATING TEMPERATURE	0 ~ + 60 °C (standard) -40 ~ + 85 °C (extended)
HUMIDITY	Up to 95% non-condensing

Power Management

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

Accessories

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

Options

- Extended operating temperature range
- Custom carrier
- Conformal coating
- Custom Connectors

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ETH_CPU-1474_DS251108

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