CPU-1440

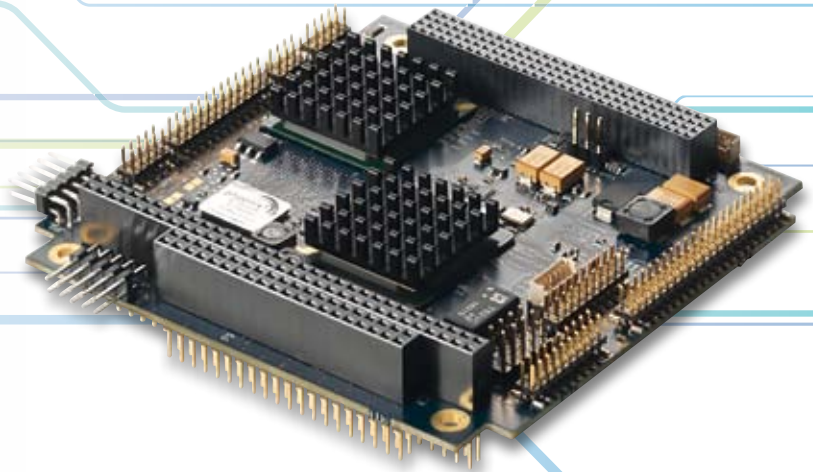- **Vortex86DX processor at 600MHz**
- **x86 compatibility**
- **True ISA and DOS compatibility**
- **Very low power consumption**
- **Integrated video**
- **Long term availability**

FEATURES

Bring new life into existing systems – With 128MB RAM and 2MB Flash Disk the CPU-1440 is the ideal upgrade platform for legacy x86 DOS, Linux and Win CE systems

Low power fanless design – At less than 4W and operating with 5V only, it is ideally suited for low power systems and sealed applications

Simple and rugged – With a rugged and streamlined design that delivers compatibility and reliable operation, the CPU-1440 is the perfect choice whenever downtime and glitches are simply not acceptable
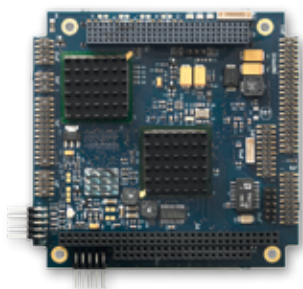
Expandability and true ISA – With PC/104 (ISA) and PC/104+ (PCI) bus expansions, it is simple to interface the CPU-1440 with existing systems and to add more peripherals and functions

Application-ready Development Kits – Cut development time with Eurotech development kits: fully featured and available both for Win CE and Linux, they provide an easy access to all interfaces and peripherals

- **Upgrade platform for legacy x86 DOS**
- **PLC and machine controllers**
- **Industrial gateways**
- **POS, MMI**
- **Rugged Thin Client PCs**
- **Low Power, fanless systems**

The CPU-1440 is a low power processor aimed at PC/104 embedded applications. It provides x86 compatibility for legacy applications using DOS, as well as supporting Linux and Windows CE for more current applications. Featuring soldered down RAM and flash, and with options for extended temperature (-40 to +70C) operation, it is ideal for installations requiring rugged construction and high reliability, such as those in industrial and transportation applications.

The CPU-1440 supports Microsoft DOS 6.22, Windows CE 6.0 and Linux 2.6.

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Board Architecture

PROCESSOR	Vortex86DX
	600MHz
	2x16KB L1 cache, 256KB L2 cache)
SYSTEM MEMORY	DDR2 SDRAM 128MB
BIOS	Phoenix / General Software Embedded BIOS
EXPANSION BUSES	PC/104-Plus (32-bit PCI)
	PC/104 (16-bit ISA)
GRAPHICS	Analog VGA Interface
	18-bit TFT and LVDS interfaces
	Composite TV PAL or NTSC output
USB SUPPORTS	4x USB 2.0 ports supporting low/full/high speed mode
ETHERNET	1x fast Ethernet port supporting 10/100BaseT
STANDARD I/O	4x high speed serial ports, 16C550 compatible (1x RS-232, 3x TTL)
	1x parallel port
FLASH DISK	2MB SPI on-board flash disk
POWER SUPPLY	5V only operation
	Power consumption less than 4W
	External battery for RTC back up
MECHANICAL	PC/104-Plus form factor
	97x100mm
ENVIRONMENTAL	Operating temperature: -40°C to +70°C
	RoHS directive: lead free

Order Codes

BOARD	• CPU-1440-00: 600MHz Vortex86DX, 128MB RAM, 2MB Flash Disk
PERIPHERAL & ACCESSORIES	• CBL-1440-00: cable kit with interfaces for COM1, COM2, COM3, COM4 (RS-232), 4x USB, VGA, Ethernet RJ45, keyboard and mouse connections
	• CDADAIDECFCPU144001: IDE/Compact Flash Interface
DEV KIT	• DEVKITCPU1440CE1.0: CPU board, breakout board, LCD display, power supply and Win CE BSP
	• DEVKITCPU1440LX1.0: CPU board, breakout board, LCD display, power supply and Linux BSP

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