

Ampro PC/104 SBC Family

True PC/104 compliance without compromises

Ampro is well known for inventing PC/104 in 1986 and for founding the PC/104 Consortium in 1992. Today, Ampro offers a broad range of CoreModule™ products from 133MHz to 1GHz in the world's smallest SBC form factor. Ampro continues to distinguish itself with unmatched fanless operation over temperature extremes, resistance to shock and vibration, conformal coating, embedded BIOS and Ampro's long production life reputation to minimize sustaining engineering in your product. Ampro provides the industry's densest Gigahertz platform for Windows® XP and Linux without expanding beyond the limits of the form factor.

Ampro CoreModule™ products offer complete embedded PC subsystems on a single PC/104 or PC/104-Plus form-factor (3.6x3.8 inches) module, featuring 486-based STPC™, Ultra Low Voltage (ULV) Celeron® and Celeron® M processors. Each CoreModule product includes a full complement of PC functions, including disk controllers, serial, parallel, and USB ports and most include video and Ethernet controllers.

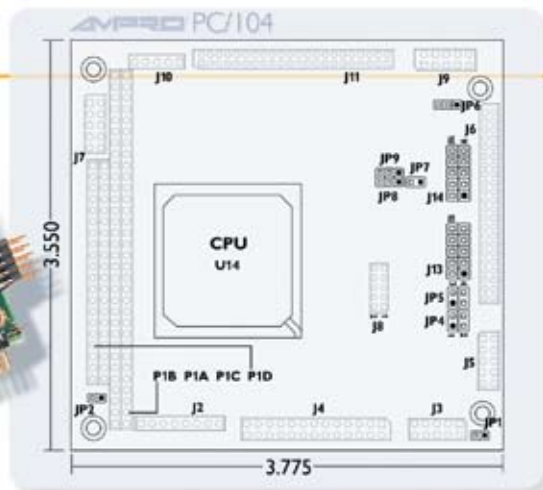
CoreModule Applications. From FDA-certified medical equipment to military PCs to rugged

airplane wing mounting configuration and application possibilities for embedded systems based on Ampro CoreModule products are practically limitless. The modules are often used in two different ways in embedded systems that require long lifecycle and ruggedness in a very small footprint.

Stand-alone Module Stacks. PC/104 form-factor modules are frequently used in compact stacks where all the functions of the application are contained within the PC/104 footprint. Stacks consist of an Ampro CoreModule CPU, one or more off-the-shelf PC/104 I/O expansion modules such as Ampro MiniModule™ products and/or one or more custom-designed application-specific PC/104 modules. The stack requires a small footprint and can be mounted directly inside the system enclosure for a durable, dependable PC-compatible assembly.

Macrocomponent Applications. PC/104 modules can be used like multi-chip macrocomponents, plugged into custom, application-specific baseboards such as an Ampro EnCore™ or ETX module. Semi-custom versions of Ampro CoreModules can also be used to bring selected I/O pins to the baseboard as well.

PC/104



Ampro's PC/I04 Form Factor Solutions

	CoreModule 410	CoreModule 420	CoreModule 600	CoreModule 800
CPU	133MHz STPC Elite	133MHz STPC® Atlas	400MHz ULV Celeron®	600MHz ULV Celeron® M
Cache	8kB Level 1	8kB Level 1	256kB Level 2	0kB Level 2
DRAM	16MB soldered SDRAM	64MB soldered SDRAM	Up to 256MB soldered SDRAM	Up to 1GB DDR SODIMM
User Flash	768kB	768kB	No	No
Bus Interface	PC/I04 (ISA)	PC/I04 (ISA)	PC/I04-Plus (ISA+PCI)	PCI-I04 (PCI)
EIDE	Enhanced DMA 33 to 2 drives	Ultra DMA 33 to 2 drives	Ultra DMA 33/66/100 to 2 drives	Ultra DMA 33/66/100 to 2 drives
Solid State Disk	DiskOnChip	DiskOnChip & CompactFlash	CompactFlash	IDE Module
Serial Port	(1) RS232, (1) RS232/422/485	(2) RS232, (2) RS232/422/485	(1) RS232, (1) RS232/422/485	(1) RS232, (1) RS232/422/485
Parallel Port	EPP/ECP bidirectional	EPP/ECP bidirectional	EPP/ECP bidirectional	EPP/ECP bidirectional
Floppy	Yes	Shared with parallel	Shared with parallel	Shared with parallel
USB	No	(2) USB 1.1	(1) USB 1.1	(2) USB 2.0
Keyboard / Mouse	PS/2 interface	PS/2 interface	PS/2 interface	PS/2 interface
Digital I/O	8	8	No	No
Audio	No	No	No	No
Network	No	10/100BaseT Ethernet	10/100BaseT Ethernet	1000BaseT Ethernet
Video	No	Integrated, 1024x768	AGP 4X, 1600x1200	AGP 128-bit, 2048x1536
Flat Panel	No	TFT	DSTN/TFT	Dual channel LVDS