

## Half Size 486/DX4 S.B.C. with PC/104 Bus

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### Features:

- Half-size all-in-one CPU card
- Supports high-end CPUs including Intel 486SX/DX/DX2/DX4 AMD Am486DXL Cyrix Cx486DX/DX2
- Standard 16-bit ISA bus compatible
- 2 x 72-pins SIMM sockets, up to 64MB RAM
- SiS-471 chipset with green function
- AMI or AWARD BIOS
- 1 Bi-directional parallel port
- 2 RS-232 Serial ports with 16550 UART for reliable and high-speed data transfers
- Built-in floppy disk drive controller
- Built-in VESA local bus IDE HDD interface
- 128KB external cache on board
- Built-in buzzer and speaker interface
- 2 keyboard inputs-mini DIN or pin header keyboard connectors
- Selectable watchdog timer
- Built-in 16 bit PC/104 expansion bus connector
- On board VESA local bus piggy-back SVGA daughter board connector
- Real time clock/calendar with battery back-up CMOS RAM
- External power connector

### HEAD OFFICE

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**The JJ-109** is an industrial grade half-size all-in-one CPU card that utilizes the power of a high-end 80486/DX4 CPU for its processing needs. It is oriented to the user who is looking for high performance CPU card with either Intel 80486DX4/DX2/DX/SX 25/33/40/50/66/75/80/100 Mhz CPU.

The card comes with all the typical interfaces of a single board computer including two RS-232 serial ports, one bi-directional parallel port, a FDD controller and a built-in VESA local bus IDE HDD interface. It has two 72-pin SIMM sockets that allows system memory of up to 64 MB and external cache of 128KB to help increase processing speed by easing up system's memory bottleneck.

The built-in safety features of a watchdog timer guard your system against operational or power faults by automatically rebooting your system when disruptions occur, making JJ.109 an ideal solution even in stand-alone or unmanned applications. With compact 6 layers PCB and condensed SMD design, JJ.109 ensures reliable operation even under harsh industrial environment.

- Dimensions 185x122 mm (7.2"x4.8")

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The featured PC/104 bus connector allows compact solution for your system requirements. Its unique selfstacking capability and small form-factor of 3.6 x 3.8 inches allow embedded applications that frees up valuable expansion slot. Also included is an on-board piggyback VESA local bus SVGA connector.

## **SPECIFICATIONS:**

### **MICROPROCESSOR**

SPEED 25/33/50/66/75/100/120/MHz  
INTEL : 486, P24T, P24D, DX4, SL  
ENHANCED  
CYRIX : M7, MISC  
UMC : U5  
AMD : 486DX, DX4  
TI : 486DX2/SLX2/SXL

### **MEMORY**

\* DRAM : Supports 1MB, 4MB, 16MB, 32MB, and 64MB SIMMs. Through Two 72-pin SIMM sockets Supports Fast Page & EDO DRAM  
\* CACHE : System memory maximum can be upgraded from 128KB to 1MB 2nd Level Cache. On-board 128KB CACHE SRAM. Upgradable 128KB to 1MB

### **CLOCK/CALENDAR**

Real-Time-Clock/Calendar with battery buffered CMOS RAM

### **DMA/IRQS**

\* Supports 7 DMA Channels  
\* Supports 15 Interrupt Levels

WATCH DOG CIRCUIT WITH  
SELECTABLE TIMER

### **BIOS**

### **I/O CONNECTION**

\* Enhanced IDE (AT-Bus) HDD-Interface at Built-in Mode4 PCI  
Supports two FDD-Floppy Disk Drives  
\* Two Serial ports COM1/RS-232, COM2/RS232, 485, 422 Jumper selection  
\* One Bi-Directional PARALLEL Port with EPP/ECP function  
\* Supports PS2 mouse with Mini-Din connector  
\* Keyboard port is supporting by 6-Pin Mini-Din or External 5-Pin Pin-Head  
\* RAM ROM DISK (RRD) Interface disk drive by 4-socket on board

### **BUS INTERFACE**

\* PC/104 expansion Bus (Primary Bus Interface)  
\* 16-Bit ISA Bus compatible (Secondary Bus Interface)  
\* PCI Bus compatible (Option by 1-adapter)

### **MECHANICAL FORM-FACTOR**

\* PCB Layers : 6 Layers  
\* Dimensions : 185 x 122mm

### **POWER REQUIREMENTS**

\* 5VDS stand-Alone operation

### **ENVIRONMENTAL**

\* Operating Temperature Range : 0~+60 degree°C  
Storage Temperature Range : -10~+80

27 x 010 EPROM or FLASH ROM

degree°C

Humidity : 0 to 95%, non-condensing

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