

Published on EMAC Inc. (https://www.emacinc.com)

Source URL: https://www.emacinc.com/content/sbc-411

SBC-411



486DX5-133

Half-size ISA bus CPU card

128 KB secondary cache included, expandable up to 512 K

Up to 64 MB of on-board DRAM; supports 5V EDO DRAM

2 built-in enhanced IDE (AT bus) hard disk drive interfaces, 1 floppy drive controller

One RS-232 and one RS-232/422/485 selectable serial port; uses 16C550 UARTs with 16-byte FIFO

One bi-directional parallel port

Watchdog timer, software programmable from 2 to 32 seconds (15 steps, 2 seconds per step)

On-board keyboard connector and/or PS/2 mouse

IDE HDD auto-detection

Connectors for PC/104 module expansion

Single +5V power supply

"Green Function" supports power management

The SBC-411 is an all-in-one CPU card that supports L2 cache sizes from 128 KB to 512 KB (32KB x 8, 64KB x 8, 128KB x 8). This CPU card uses the M1489/M1487 chipsets, along with and AMD 486DX5-133 CPU onboard. The SBC-411 is fully PC/AT compatible, so your software will run without modifications. On-board features include two high-speed serial ports (RS-232 and RS/232/422/485) with 16C550 UARTs, one bi-directional parallel port, and a floppy drive controller. If program execution is halted by a program bug or EMI, the board's 15-stage watchdog timer can automatically reset the CPU or generate an interrupt. This ensures reliability in unmanned or stand-alone systems. The SBC-411 is built with two high speed local bus Enhanced IDE controllers that support (through ATA PIO) mode 3 and mode 4 hard disks. Data transfer rates in excess of 11 MB/second are achievable. It connects up to four IDE devices, including large hard disks, CD-ROM drives, tape backup drives, etc. The built-in enhanced IDE controller provides a 4-layer 32-bit posted write-buffer and a 4-layer 32-bit read-prefetch buffer to boost IDE performance. The SBC-411 supports 5V EDO DRAM. It also provides one 72-pin SIMM (Single In-line Memory Module) sockets for on-board DRAM. The SBC-411 uses CMOS components and complies with the "Green Function" power management standard. If you need any additional functions, you can add industry-standard PC/104 expansion modules. We provide numerous PC/104 modules to meet your system requirements. You can even have us custom design a module if the functions you need are nct availabla

Sbe Type.

EOI Single Board Computers

Processor

486DX5

Clock Speed:

133 MHz

Real Time Clock:

Processor Misc.:

L2 Cache Memory Size: 64 KB to 512 KB 2nd level cache memory socketed

Memory Bios/ Boodoader:

AMI Flash WIN BIOS

Memory Misc.:

Shadow RAM Memory: Supports system and video BIOS shadow memory of up to 256 KB in 32 KB blocks

Primary I/O

1x FDD 2x EIDE

Serial Ports:

2x RS-232

1x Parallel SPP/EPP/ECP

Watchdog:

Primary I/O Misc.:

DMA Channels: 7

Interrupt Levels: 15

Bus Speed: 8 MHz

Ll Secondary I/O

Keypad:

PS/2:

Analog on

Dimensions Dimensions.	
$7.3 \times 4.8 \text{ in}$	
Weight:	
0.5 kg	
Form Factor:	
Half Size ISA Card	
Power Requirements Voltage.	
5 V	
Typical Current:	
2.5 A	
Typical Voltage:	
5 V	
Environmental Low Operating Temperature:	
0 C	
High Operating Temperature:	
60 C	
Pricing SLC-411-0	
486DX ISA CARD SBC W/ PC/104	
\$0.00	
SBC-411E	
486DX ISA CARD SBC W/ PC/104 & ETHERNET	
\$0.00	
	_
Source URL: https://www.emacinc.com/content/sbc-411	

A/D: D/A: