

SBC-456



Onboard AMD 486DX5-133 CPU (SQFP)

SM712 LCD controller with 2MB EDO memory

One 10/100Base-T Fast Ethernet

Supports DiskOnChip® up to 1GB and Compact Flash™ Memory

Four Com Ports

PC/104 expansion connector

The SBC-456 is an all-in-one single board 486 computer with an on-board flat panel VGA/LCD controller. It packs all the functions and display capabilities of an industrial computer onto a single, half-size card. The SBC-456 is particularly suited for embedded applications. The on-board PCI-bus controller uses the SM-712 chipset with 2 MB of SGRAM video memory. This chipset, used with the local PCI-bus, enables 32-bit graphic throughput at up to 33 MHz. Excellent for display-intensive applications, it supports various LCD types, including TFT, STN, B/W and EL. Another feature of the SBC-456 is the inclusion of a high speed, local bus IDE controller. This controller supports (through ATA PIO) mode 3 and mode 4 hard disks, enabling data transfer rates in excess of 11 MB/second. Up to four IDE devices can be connected, including large hard disks, CD-ROM drives, tape backup drives or other IDE devices. 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. On-board features include a DiskOnChip® Socket, a CompactFlash™ Socket, three high-speed RS-232 serial ports with 16C550 UARTs, one high-speed RS-232/422/485 serial port, one bi-directional SPP/EPP/ECP parallel port and a floppy-drive controller. In addition to the 486's 16 KB of on-

chip cache memory, the SBC-456 includes an extra 128 KB of second level on-board cache memory and 10/100Base-T Ethernet support. If program execution is halted by a program bug or EMI, the board's 16-stage watchdog timer can automatically reset the CPU or generate an interrupt. This ensures reliability in unmanned or standalone systems. The SBC-456 supports 5 V FPM/EDO DRAM with 8 MB on-board. It also provides one 72-pin SIMM (Single In-line Memory Module) socket for its on-board system DRAM. This socket gives you the flexibility to configure your system from 8 MB up to 64 MB of DRAM.

Specifications

SBC type:

EM Single Board Computers

Processor

Processor:

AMD 486DX5-133

Real Time Clock:

Processor Misc.:

Chipset: ALi 1487/1489

2nd Cache Memory: Onboard 128KB L2 Cache

Memory

BIOS/ Bootloader:

AMI 128KB Flash BIOS

Primary Flash:

1GB Compact Flash Disk

Primary I/O

Disk interface:

1x IDE

1x FDD

Ethernet:

10/100BaseT RJ-45 Realtek RTL8139C

Serial Ports:

1x Parallel

3x RS-232

1x RS-232/422/485

Watchdog:

Primary I/O Misc.:

DMA: 7 DMA channels

Interrupt: 15 interrupt levels

Secondary I/O

USB Port:

Keypad:

PS/2:

Analog on

A/D:

D/A:

Dimensions

Dimensions:

7.3 × 4.8 in

Weight:

0.66 kg

Form Factor:

Half Size ISA Card

Power Requirements
Voltage:

5 V

Power Misc.:

Battery: Lithium battery

Environmental
Low Operating Temperature:

0 C

High Operating Temperature:

60 C

Pricing
SBC-456

486 SBC W/ 8 MB/ ISA/ PC104/ Ethernet

\$0.00

SBC-456-0

486 SBC W/ 8 MB/ ISA/ PC104

\$0.00

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