SingleBoardComputers (SBCs)



MSB133f0

Models and Description:

- MSB200P0 Pentium SBC operating at 200 MHz.
- MSB166P0 Pentium SBC operating at 166 MHz.
- MSB133P0 Pentium SBC operating at 133 MHz.
- MT75E 486DX5 SBC operating at 133 MHz (performance equates to 75 MHz Pentium*).

Pentium").

eneral Description:

Single-board computers for LAN-based hosts, gateways, and servers.

The Multi-Tech Single Board Computers, or SBCs, are full-featured Pentium* or equivalent processors with ISA-bus architecture. They are designed for high-density computer installations such as networks and communication systems that require multiple servers, operating systems, and applications running on individual computers.

Using a combination of one MultiArrayIII™ segmented computer rack, a MultiArraySwitch™ video/keyboard/mouse multiplexer, SBCs, and network interface cards (NICs), an administrator can install up to nine computers running independently in about twelve vertical inches of rack space (keyboard, mouse, and monitor not included). The SBCs are also the heart of Multi-Tech's MiniArray™ communication servers.

Models MSB133PO, MSB166PO, and MSB200PO have Pentium* processors that operate at 133 MHz, 166 MHz, and 200 MHz, respectively and model MT75E has a 486 processor clocked at 133MHz.

Each SBC provides the features and operation of an IBM AT motherboard, with video, keyboard, and two COM port connectors plus peripheral device controllers, on a full-length expansion board. This board installs in any MultiArrayIII segment where it can access one to five expansion slots for a network interface card (NIC), SCSI controller card, or communication cards (e.g., ISI552, ISI608, or ISI2834/4).

With the on-board power of a Pentium/ equivalent processor and capacity for 128 megabytes of RAM, the SBC may be configured for use as a file server, communication server, LAN gateway, sync/async bridge, router, or workstation for dial-in LAN access.

eatures:

IBM* AT-motherboard compatible, Intel*-processors with capacity for 128 meg of RAM.

Processor

- Pentium or 486 family processor.
- Integrated coprocessor.

Random Access Memory

- All models ship without RAM.
- Bank(s) may be populated with 4 (MT75E only), 8, 16, 32, 64, or 128 meg (other expansion options are also supported) of RAM.

• Requires one bank, (Pentium-2 slots, 486-1 slot), to be completely filled with appropriate SIMM(s).

Video

- All models support VGA at 640x480x256, 800x600x256 (VESA), or 1024x768x16 color resolution.
- Pentium models also support 1024x768x256 color resolution.

Keyboard

• Supports 101-style keyboard via 6-pin mini-DIN connector.

Peripheral Controllers

- Standard IDE hard drive controller supports one or two hard drives with capacities over 1 Gh each.
- Floppy drive controller supports one or two 3.5" or 5.25" floppy drives.
- 16550 serial port controller provides one onboard serial port (9-pin, RS232C interface). Supports optional COM2 via user-supplied expansion cable or connector bracket.
- Parallel port controller supports optional LPT1 via user-supplied expansion cable or connector bracket.
- BIOS auto configures hard drive(s), provides password security, power saver, and watchdog timer

pecifications:

Requires a powered backplane, as provided in the MiniArray or MultiArrayIII.

Dimensions: 4.75" x 1" x 13.25"

Memory

3 cm x 12.1 cm x 34.0 cm Two (four slots) (Pentium) or

Banks: Two (two slots) (486) 72-pin SIMM banks

SIMMs: All SIMMs must operate at 70nanoseconds or faster (SIMM(s) can

be with or without parity).

Cache: 512Kb (Pentium) / 256Kb (486)

external cache

Video: 100% VGA hardware-register and

BIOS compatible

Video Port: High density 15-pin female

(DB15F) connector

VRAM: 1M (Pentium) / 512K (486)

on-board VRAM supports 640x480x256, 800x600x256, 1024x768x16, (all models) or 1024x768x256 (Pentium only)

color resolution.

Keyboard: 6-pin mini-DIN port for 101-style

keyboard

UARTs: Two 16550 UART controllers Serial Port: One 9-pin male (DB9M) connec-

tor with RS232C interface. Optional COM2 supported via

expansion cable

Parallel port: Parallel port controller supports

optional LPT1 via expansion cable

Floppy drive: Floppy disk controller supports one or two optional 3.5" or 5.25" floppy

drives

Hard drive: IDE hard drive controller supports

two optional hard drives, CD-ROM or any IDE compliant device

Switch: Momentary push-button reset

switch

Clock: Real Time Clock with battery

backup

Timer: Watchdog timer auto reboots upon

system lockup

BIOS: AWARD (Pentium);

Phoenix ROM BIOS (486) 32° to 120° F (0° to 50° C)

Temp: 32° to 120° F (0° to 50° C)
Power 4 A @ 5v DC (Pentium)
3 A @ 5v DC (486)

3 A @ 5v DC (486) 20 mA @ ±12v DC

Warranty: Two years

Usage:

Manufactured in Mounds View, MN, U.S.A.

Individual spec sheets are available for the MultiAtrayIII, MiniArray, ISI552, ISI608, and ISI2834/4.

MultiTech® Systems

The right answer every time.

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TEL: +(44) 1189-597774 FAX: +(44) 1189-597775 BBS: +(44) 1189-595564 Trademarks: MultiArrayIII, MiniArray, MultiArraySwitch, Multi-Tech, and the Multi-Tech logo: Multi-Tech Systems, Inc. IBM: International Business Machines Corporation. Intel and Pentium: Intel Corporation.

Остовет, 1996

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FB Doc # 1712

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