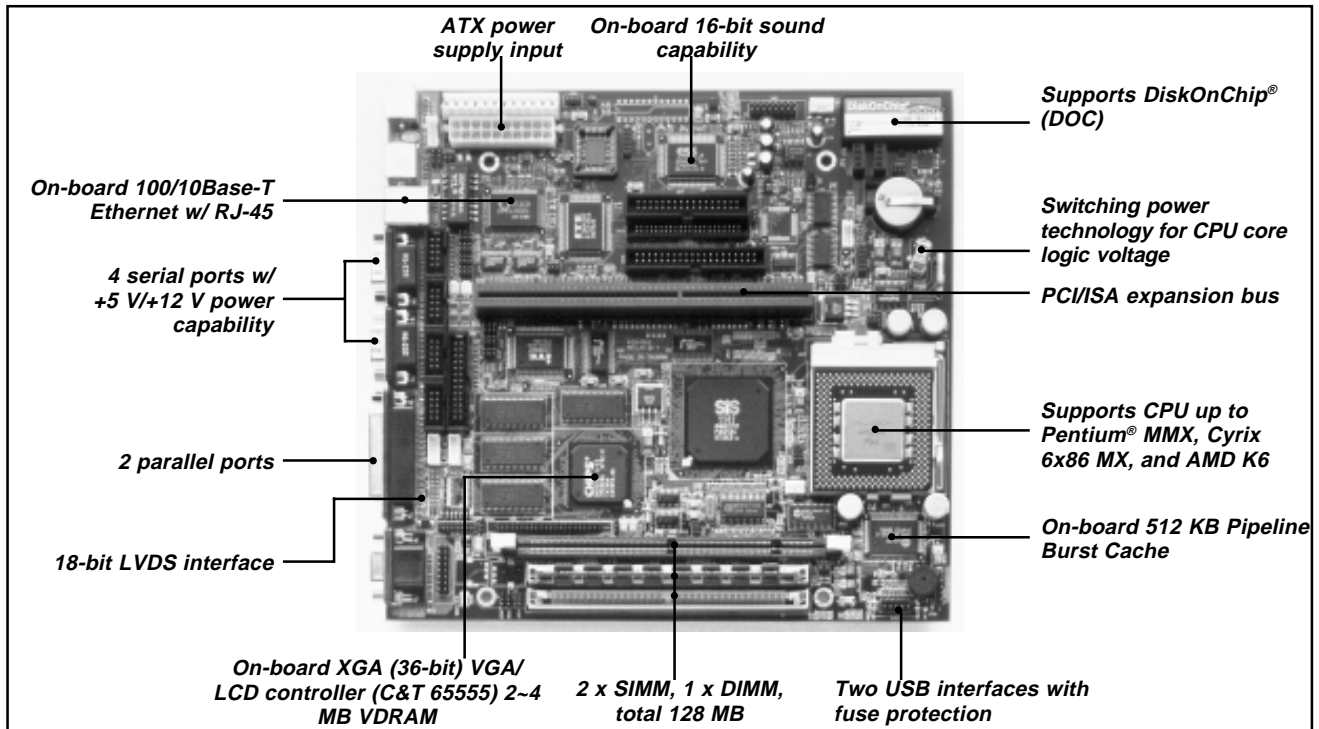


POS-562/L Pentium® Processor-based Control Board for Multimedia Applications



Introduction

The POS-562/L is a powerful Pentium® processor-based control board designed for high-end multimedia POS applications as well as other special OEM markets. It supports Intel Pentium® MMX, AMD K5 and K6, and Cyrix 6x86 MX processors. The POS-562/L is packed with special on-board features like 100/10Base-T Ethernet, 16-bit sound, 36-bit XGA LCD and LVDS support as well as DOC 2000 and an abundance of IOs.

The POS-562/L uses a standardized layout based on Western Digital's LPM/LPX format. It is 100% PC compatible and readily connectable to any existing PC hardware and software. Special POS features like four on-board serial ports, each with +5 V/+12 V power output capability, and two USB connections are available to accommodate a wide array of POS peripherals.

POS-562's industrial grade construction allows it to withstand continuous operation in a harsh POS environment where reliability is essential. Other on-board industrial features not found on conventional motherboards include a watchdog timer for dependability during unmanned operations, and CMOS backup to Flash ROM. An on-board SSD socket can support DiskOnChip® Flash modules.

The POS-562/L includes two 72-pin SIMM sockets (maximum 128 MB DRAM) and one 168-pin DIMM socket for up to 128 MB total on-board memory.

Features

- All-in-one design simplifies system integration and increases system stability
- Compatible with Intel Pentium® MMX, Cyrix 6x86MX, and AMD K5 and K6 processors up to 233 MHz
- On-board POS features such as 4 x RS-232 with power and 2 x USB interfaces for controlling cash drawers or other external peripherals
- 100/10Base-T with RJ-45 connection for the most demanding networking environment
- 16-bit full-duplex 3D audio for quality multimedia sound applications (POS-562 only)
- Special industrial features not found on conventional motherboards include watchdog timer, SSD and CMOS EPROM backup
- Standardized layout conforms to Western Digital LPM/LPX format for easy installation within standard sized chassis
- Supports up to 36-bit XGA high resolution LCD, 18-bit LVDS, as well as CRT VGA at 2 ~ 4 MB display memory
- Advanced CPU switching power technology for stable and low heat CPU voltage power conversion
- Supports DiskOnChip® Flash modules

Specifications

Standard SBC functions

- **Processor:** Intel Pentium®, Pentium® MMX up to 233 MHz
AMD K5, K6 up to 233MHz
Cyrix 6x86 MX PR-233
- **BIOS:** Award 256 KB Flash BIOS includes Ethernet boot ROM and VGA BIOS. Supports Plug and Play
- **System chipset:** SiS 5582
- **Green function:** APM 1.1 compliant
- **Second level cache:** On-board 512 KB Pipelined Burst SRAM
- **RAM:** Two 72-pin SIMM sockets and one 168-pin DIMM socket for 128 MB total on-board memory. Supports 3.3 V or 5 V SIMM by setting jumpers
- **Enhanced IDE interface:** Two Enhanced IDE interfaces, one 44-pin header for 2.5" HDD and one 40-pin header supports 3.5" HDD & CD-ROM
- **FDD interface:** Supports up to two FDDs (360 KB/ 1.2 MB/720 KB/1.44 MB/2.88 MB)
- **Parallel port:** Two parallel ports, supporting SPP/EPP/ECP parallel mode
- **Serial port:** Four serial ports with +5 V/+12 V power capability
COM 1, 3, 4: RS-232
COM 2: RS-232/422/485
- **Watchdog timer:** Software enabled/disabled. 0 ~ 63 sec. selectable
- **Keyboard connector:** Mini-DIN keyboard connector and internal 6-pin header connector for mouse/keyboard
- **Mouse connector:** PS/2 mouse connector, jumper selectable to keyboard
- **USB interface:** Two USB connectors with fuse protection. Complies with USB Spec. Rev. 1.0
- **Power inputs:** ATX power connection (conforms to ATX power supply specification), AT power connection
- **Expansion bus:** PISA bus (PCI/ISA). Expand via riser card (POS-102)

Audio Function (POS-562 only)

- **Chipset:** ESS 1869
- **Audio Controller:** 16-bit, Sound Blaster Pro compatible
- **Sound Quality:** Full-duplex, integrated 3D audio
- **Audio interface:** Mic in, Line in, CD audio in, Line out, Speaker out

PCI High Performance CRT/Flat Panel Interface

- **Chipset:** C&T 65555, 64-bit graphics engine
- **Flat panel performance:** 36-bit direct interface to mono, STN, DSTN & TFT panels. Advanced power management. 3.3 volt LCD supported
- **CRT/LCD Resolution:** Up to 1280 x 1024 x 16 bpp @ 4 MB DRAM
- **Display Memory:** 2 MB on-board standard, 4 MB optional

LVDS (Low Voltage Differential Signal) Interface

- **Chipset:** TI SN75LVDS84
- **Performance:** 18 low-voltage TTL data channels plus clock-in and 3 low-voltage differential data channels plus clock-out. 3.3 volt and 250 mW (typ.). Meets ANSI EIA/TIA-644

Ethernet Interface

- **Chipset:** Realtek RTL 8139A
- **Ethernet interface:** PCI 100/10 Mbps Ethernet controller. Novell NE2000 compatible. Includes software drivers and boot ROM (RJ-45 connection)

Solid State Disk

- One 32-pin socket supports DiskOnChip®
- DOS and Windows 3.1 command compatible

Mechanical and Environmental

- **Max. power requirements:** 7 A @ 5 V (4.75 to 5.25), 0.15 A @ ±12 V
- **Operating temperature:** 0 to 60° C (32 to 140° F)
- **Size:** 220 mm (L) x 235 mm (W) (8.7" x 9.25")
- **Weight:** 0.5 kg (1.1 lbs.)

Ordering Information

- ❑ **POS-562-00A1**
Pentium® Processor-based Control Board for POS Applications, with 2 MB display memory. Includes 512 KB cache memory (processor, SSD, DRAM not included)
- ❑ **POS-562L-00A1**
(Same as POS-562-00A1, but without 16-bit sound)
- ❑ **PCD-2000-0200/0400/0800/1200/2400/4000/7200**
DiskOnChip® 2 ~ 72 MB Flash Module
- ❑ **POS-102-0000**
2 PCI/ISA Share Slots Riser Card (Configuration: 2 PCI, 2 ISA, or 1 PCI + 1 ISA)
- ❑ **1700080170**
USB cable for POS-560, POS-562, PCM-5862 series