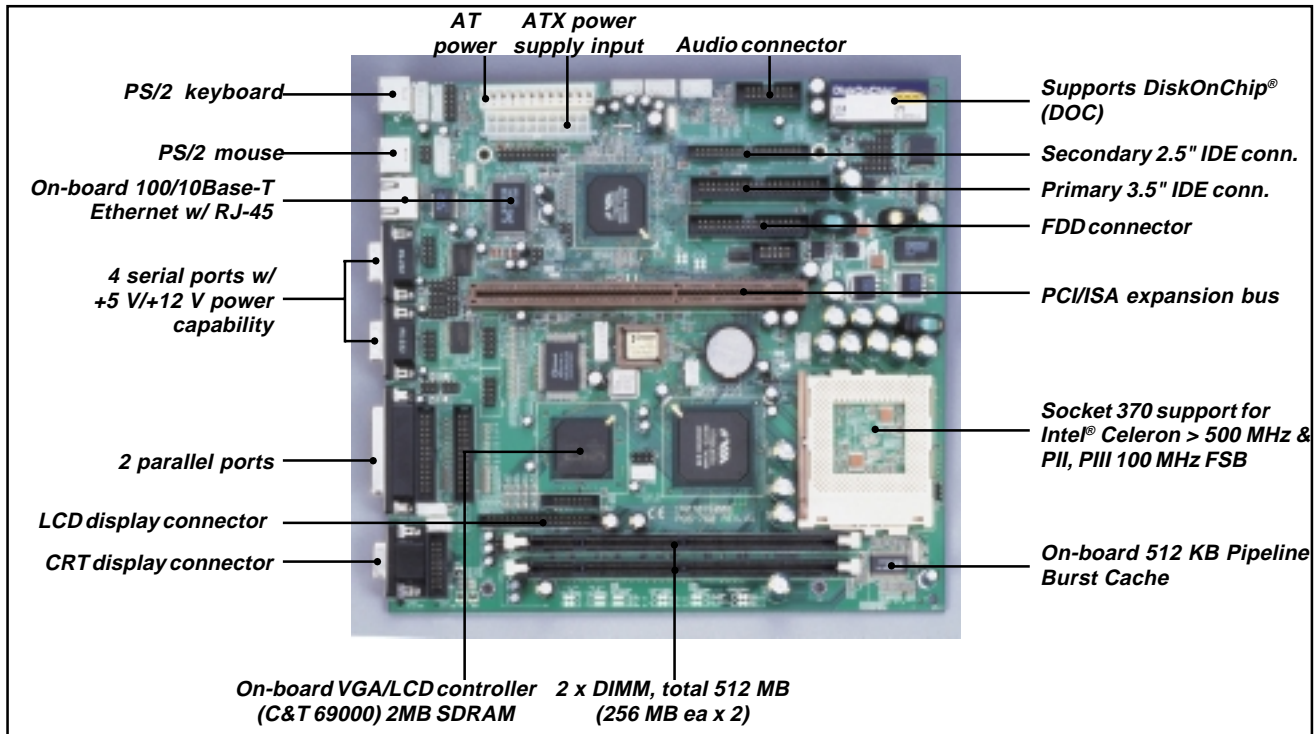


POS-760F

**Celeron™/Pentium®III SBC
for POS Applications**



Introduction

The POS-760F is a powerful Intel® Socket 370 based Celeron™ processor control board designed for high-end multimedia POS applications as well as other special OEM markets. It supports Intel Celeron™ processors up to 500 MHz and higher, as well as Pentium II and III processors that utilize 100 MHz front side bus speeds. The POS-760F is packed with special on-board features like 10/100Base-T PCI Ethernet, 36-bit XGA TFT LCD panel support as well as SSD support for DOC® 2000 and CompactFlash™. A Mini PCI socket for optional International version modem is provided. Optional AC97 3D stereo surround sound with speaker-out, CD-input, line-in, line-out and Microphone, is also supported.

The POS-760F 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.

The POS-760F includes two 168-pin Dimm sockets for up to 512 MB total on-board memory. The POS-760'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 and CompactFlash™ modules.

Features

- All-in-one design simplifies system integration and increases system stability
- Socket 370 for Intel® Celeron processors up to 500 MHz and higher, plus, Pentium®III 100 MHz FSB support
- 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
- 10/100Base-T with RJ-45 connection for the most demanding networking environment
- Optional AC97 3D surround stereo sound with speaker out, CD-input, line-in, line-out and microphone for complete multimedia capability
- Special industrial features not found on conventional motherboards include watchdog timer, SSD and CMOS EPROM backup
- 4 digital-in and 4 digital-out provided. 2 of the 4 are MOSFET and can support 24 V at 2 A. Specially designed for Cash Drawer.
- 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, as well as CRT VGA at 2 ~ 4 MB display memory
- Supports Wake-on-LAN, Modem
- Supports LCD backlight turnoff function
- Mini PCI interface for optional international modem

Note: All features and specifications are subject to change without notice.

Specifications

Standard SBC functions

- **Processor:** Socket 370 for Intel®Celeron up to 500 MHz and Pentium®III support (100 MHz FSB)
- **BIOS:** Award 256 KB Flash Bios supports Plug & Play, Ethernet boot ROM, boot from CD-ROM, boot from LS-120 ZIP Drive. Wake-on-Lan, modem and LCD back light turn-off also supported. Optional customer icon available.
- **System chipset:** VIA 82C693, VIA 82C686A
- **Green function:** APM 1.2 compliant
- **Second level cache:** 128 KB on Celeron processor, 256 KB on Pentium III processor
- **DIO:** 2 MOSFET digital out 2 A, 4 TTL digital in
- **RAM:** 2 x 168-pin DIMM sockets, supports 32 MB to 512 MB, accepts 32/64/128/256 MB Synchronous DRAM
- **Enhanced IDE interface:** Supports up to four EIDE devices. BIOS auto-detect, PIO Mode 3 or Mode 4, UDMA/33 transfer, UDMA/66 transfer
- **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 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. 1 ~ 62 sec. selectable
- **Keyboard connector:** Mini-DIN PS/2 keyboard connector and internal 5-pin header connector
- **Mouse connector:** Mini-DIN 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:** EISA bus connector provides ISA/PCI signals

Optional Audio Function

- **Chipset:** VIA 82C686
- **Audio Controller:** AC97 version 2.0 compliant interface, Sound Blaster Pro compatible
- **Sound Quality:** Full-duplex, integrated 3D audio
- **Audio interface:** Mic-in, Line-in, CD audio-in, Line-out, Speaker L and Speaker R

PCI High Performance CRT/Flat Panel Interface

- **Chipset:** C&T69000 chip with embedded 2 MB SDRAM memory, optional C&T69030 chip with embedded 4 MB SDRAM memory
- **PCI SVGA:** Supports CRT and LCD display, 64-bit graphic accelerator
- 16-pin header direct connect to 18-bit/24bit/36bit graphic
- **Flat panel performance:** 36-bit XGA TFT LCD panels. Advanced power management. 3.3 volt LCD supported
- **CRT/LCD Resolution:** Up to 800 x 600 @ 24 bpp, 1024 x 768 @ 16 bpp (reserved throughhole for LCD daughter board)
- **Display Memory:** 2 MB embedded C&T69000 standard, 4 MB embedded with optional C&T69030

Ethernet Interface

- **Chipset:** Realtek RTL 8139B
- **Ethernet interface:** PCI 10/100 Mbps Ethernet controller. IEEE 802.3 U protocol compatible. Includes software drivers and boot ROM (RJ-45 connection)

Solid State Disk

- One 32-pin socket supports DiskOnChip®
- One 50 pin socket for CompactFlash™ card (shared 2nd IDE channel)

VGA/LCD Interface

- **Chipset:** C&T69000 2 MB SDRAM on chip
- **Interface:** PCI interface, 64-bit engine
- **Display mode:** Flat panel displays up to 800 x 600 @ 24 bpp, 1024 x 768 @ 16 bpp, CRT monitors up to 800 x 600 @ 24 bpp, 1024 x 768 @ 16 bpp

Mechanical and Environmental

- **Max. power requirements:** 5.1 A @ 5 V, 0.15 A @ ±12 V (typical 128 MB DRAM, Celeron™ 500 MHz CPU)
- **Operating temperature:** 0 to 60° C (32 to 140° F)
- **Size:** 220 mm (L) x 235 mm (W) (8.7" x 9.25")
- **Weight:** 0.7 kg (1.54 lbs.)

Ordering Information

- ❑ **POS-760F-00A2**
Socket 370 SBC for POS Applications
- ❑ **9689000198**
Mini PCI 56 K modem card
- ❑ **POS-102-0000**
2 PCI/ISA Share Slots Riser Card (Configuration: 2 PCI, 2 ISA, or 1 PCI + 1 ISA)
- ❑ **1700100170**
USB cable for POS-560, POS-760F