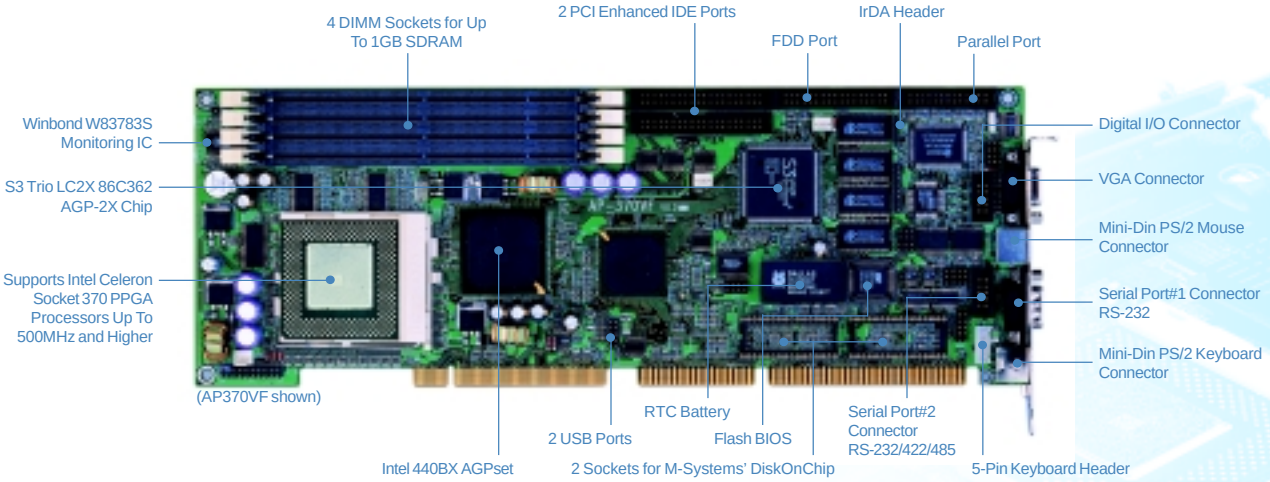
AP370VF/F Socket 370 Celeron SBC with AGP-2X VGA, SSD & Digital I/O

Industrial PICMG SBC



The AP370VF/F is a full-size PICMG Single Board Computer (SBC) that builts on the **Intel 440BX AGPset** and accepts Intel **Celeron Socket 370** PPGA processors up to 500MHz and higher. This gives you near Pentium II level performance with less heat build up and a lower cost.

The AP370VF has on-board S3 Trio LC2X 86C362 **AGP-2X** chip with 4MB video memory to provide resolutions up to 1600 x 1200 with 256 colors (up to 16.7M colors at lower resolutions). One special feature of the AP370VF/F is **two DiskOnChip sockets** that can support up to 288MB of SSD. The AP370VF/F also has a 4-bit **Digital Input/ Output** header. A watchdog timer provides a hardware IRQ at 7 different interval settings as well as a software IRQ with 16 different interval settings.

These models have many features to offer for a reasonable cost. Other on-board features include two PCI Enhanced IDE ports for up to four IDE or Ultra DMA-33 devices, two serial ports (one selectable RS-232/422/485), one multi-mode parallel port, two USB ports, one IrDA interface, and system health monitoring.

■ Specifications

- **CPU Support**
  Supports Intel Celeron Socket 370 PPGA processors up to 500MHz and higher.
- **System Chipset**
  Intel 440BX AGPset, 66/100MHz FSB.
- **System Memory**
  Four 168-pin DIMM sockets support up to 1GB SDRAM (ECC capable).
- **AGP VGA Controller**
  S3 Trio LC2X 86C362 AGP-2X chip with 4MB video memory. Supports resolutions and color depth up to 1600x1200 at 16 colors. (AP370VF only)
- **IDE Interface**
  Two Enhanced IDE ports support up to four IDE or Ultra DMA-33 devices.
- **Solid State Disk**
  Two 32-pin DIP sockets for M-Systems DiskOnChip 2000 up to total of 288MB.
- **FDD Interface**
  One FDD interface supports up to two floppy drives.
- **Serial Port**
  Two serial ports on-board, one RS-232 and one RS-232/422/485.
- **Parallel Port**
  One multi-mode parallel with support for EPP, ECP, SPP, and Standard.
- **Universal Serial Bus**
  Two on-board USB port headers.
- **Digital I/O**
  4-bit digital input / 4-bit digital output header.
- **IR Interface**
  On-board IRDA header support one IR Interface.
- **Keyboard**
  5-pin keyboard header and 6-pin Mini-Din PS/2 keyboard connector.
- **PS/2 Mouse**
  6-pin Mini-Din PS/2 mouse connector.
- **Watchdog Timer**
  Hardware IRQ with 0.5,1,2,4,16, 32, & 64 second settings.
  Software IRQ with 0 - 30 second settings in 2 second intervals.
- **Health Monitoring**
  On-board Winbond W83783S health monitoring with CPU temperature alarm.
- **BIOS**
  256K Award flash BIOS.
- **Bus Interface**
  ISA/PCI bus (PICMG).
- **RTC Battery**
  Dallas RTC Battery.

■ Ordering Information

- **AP370VF:** Socket 370 Celeron SBC with AGP-2X VGA, SSD & Digital I/O.
- **AP370F:** Socket 370 Celeron SBC with SSD & Digital I/O.

■ Physical Dimension / Operating Environment

- **Dimension / Weight**
  13.25" X 4.83" / 338mm X 122mm
  0.881 lbs / 400 g (AP370VF)
- **Operating Conditions**
  Temperature: 14°F to158°F / -10°C to 70°C
  Humidity: 10% to 90% RH
  Power: 6.14A at +5V and 0.12A at +12V