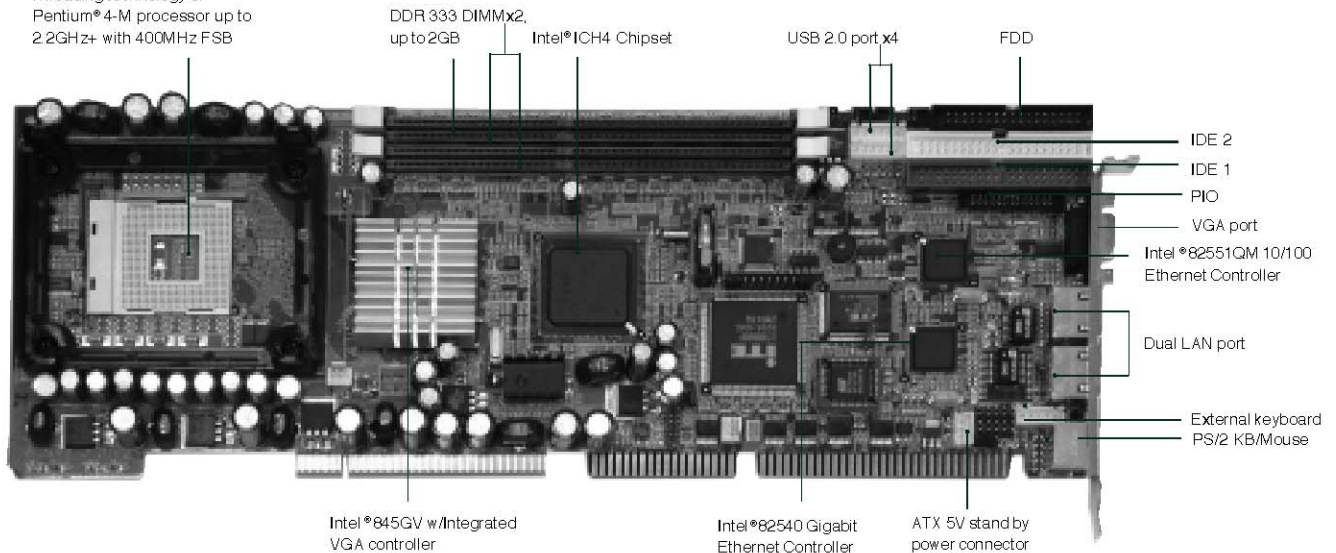


# SB715

Full-sized PICMG SBC support Socket 478 Intel® Pentium® 4 Celeron® with VGA/Dual LAN

Socket 478 for Intel® Pentium® 4 processor up to 3.06GHz+ w/Hyper-Threading technology or Pentium® 4-M processor up to 2.2GHz+ with 400MHz FSB



## Features

- ◆ Socket 478 for Intel® Pentium® 4 processor up to 3.06GHz+ with 400/533MHz FSB, Hyper-Threading technology or Pentium® 4-M processor up to 2.2GHz+ with 400MHz FSB
- ◆ Intel® 845GV / ICH4 Chipsets
- ◆ 184-pin DIMM x 2 support DDR200/266/333 memory up to 2GB
- ◆ Integrated VGA with 64MB share memory
- ◆ Intel® 82540EM GbE x 1/ Intel® 82551QM 10/100 LAN x 1 or Intel® 82551QM 10/100 LAN x 1
- ◆ USB 2.0 port x 4

## Specifications

### System Architecture

- ◆ Full size SBC with PCI/ISA Golden finger
- ◆ AGP 2.0 compliant
- ◆ PICMG 1.0 (Rev.2.0) compliant

### CPU Support

- ◆ Socket 478 for Intel® Pentium® 4 / Celeron® processor up to 3.06GHz+ with 400/533MHz FSB
- ◆ Support Hyper-Threading™ technology
- ◆ Support Intel® Pentium® 4 processor-M up to 2.4GHz+ with 400MHz FSB

### Main Memory

- ◆ 184-pin DIMM x2, support DDR 200/ 266/333 memory up to 2GB
- ◆ Unbuffered non-ECC DIMM support

### BIOS

- ◆ Award System BIOS
- ◆ Plug & Play support
- ◆ APM (Advanced Power Management) support
- ◆ ACPI (Advanced Configuration & Power Interface) support
- ◆ 4M bits flash ROM

### Chipset

- ◆ Intel® 845GV
- ◆ Intel® 82801DB I/O Controller Hub (ICH4) x 1

### On-board VGA

- ◆ Intel® 82845GV chipset integrated VGA controller
- ◆ 64MB of VGA system memory
- ◆ Fully PC98, PC99 compliant

### On-board LAN

- ◆ Dual Intel® 82551QM 10/100 Fast Ethernet controllers for PEAK 715VL2-HT
- ◆ Intel® 82551QM 10/100 Fast Ethernet controller x1 and Intel® 82540EM Gigabit Ethernet controller x1 for PEAK 715VL2G-HT
- ◆ Full duplex compliant with IEEE802.3, IEEE802.3u, IEEE802.3x, IEEE 802.3y, IEEE 802.3ab RJ45 with LED connector x 2

### I/O Interface

- ◆ Built-in ITE 8712F-A Super I/O chipset
- ◆ USB 2.0 port x 4
- ◆ HDD: 40-pin connector x 2; Ultra DMA 33/66/100 support
- ◆ Serial COM port (16C550 UART) x 2 : 10-pin header x 2
- ◆ Parallel: 26-pin connector x 1, support EPP/ECP

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- ◆ FDD: 34-pin connector x 1
- ◆ Video: 15-pin CRT connector x 1
- ◆ PS/2 keyboard/mouse: 6-pin mini DIN connector x 1
- ◆ External keyboard: 5-pin connector x 1
- ◆ Buzzer x 1
- ◆ GPIO (4-in 4-out )
- ◆ I<sup>2</sup>C: 2-pin header x 1
- ◆ Reset SW: 2-pin header x 1
- ◆ IDE active LED: 2-pin header x 1
- ◆ ATX power SW: 2-pin header x 1
- ◆ Power cable connected to backplane board to support ATX power on function:3-pin power header x 1
- ◆ Additional power source input: 4-pin headerx1

## System Monitor

- ◆ Derived from super I/O ITE 8712F-A to support system monitor
- ◆ 8 voltage(For+1.5V, +3.3V, +5V, -5V, +12V,-12V,Vcore and Vcc5V standby)
- ◆ Monitor CPU fan speed, CPU temperature and system temperature

## Real Time Clock

- ◆ On-chip RTC with battery back up
- ◆ External Li-Ion battery x 1

## Watchdog Timer

- ◆ Watchdog timeout can be program mable by Software from 1-128 seconds

## PCI to ISA Bridge & ISAMAX Support

- ◆ ITE 8888Fx1
- ◆ Provide 64mA to support max. 20 ISA slots on the backplane

## Dimensions

- ◆ 338.58mm(L) x122mm(W)
- ◆ 13.3"(L) x 4.8"(W)

## Environments

- ◆ Operating temperatures: -20°C to 60°C
- ◆ Storage temperatures:-20°C to 80°C
- ◆ Relative humidity:10% to 90% (Non-condensing)

## Certification

- ◆ CE
- ◆ FCC

## Power Requirements

Model		
CPU	3.06G	2.4G
Memory	256MB	256MB
+12V	6.5 A	4 A
+5V	4 A	3.5 A
+3.3V	0.6 A	0.5 A
+5Vsd	0.5 A	0.5 A

## Ordering Information

### SB715VE

Full-sized socket 478 Intel® Pentium® 4 / Celeron® / Pentium® 4-M processor w/VGA/DDR/LAN (Intel® 82551QM 10/100 LAN)

### SB715VG

Full-sized socket 478 Intel® Pentium® 4 / Celeron® / Pentium® 4-M processor w/VGA/DDR/Dual LAN ( IntelR 82540EM Gigabit + 82551QM)

