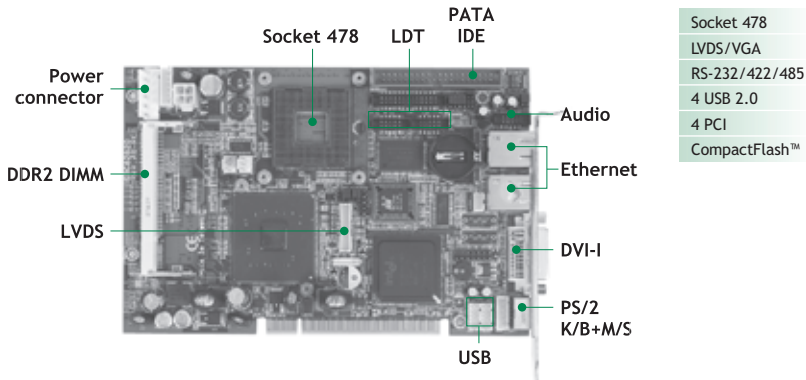


# SBC82820

Socket 478 Intel® Pentium® M PICMG 1.0 PCI Half-size CPU Card with Intel® 910GMLE + ICH6M Chipset, DVI-I/LVDS, Dual LANs and Audio



|                |
|----------------|
| Socket 478     |
| LVDS/VGA       |
| RS-232/422/485 |
| 4 USB 2.0      |
| 4 PCI          |
| CompactFlash™  |

## Features



- Socket 478 for Intel® Pentium® M/ Celeron® M processor with FSB 400 MHz
- Intel® 910GMLE + ICH6M chipset
- 2 DDR2 DIMM support up to 2 GB memory
- Dual 10/100/1000 Ethernet and Audio
- DVI-I for VGA and DVI-D display output

## System

|                     |   |
|---------------------|---|
| CPU                 | Socket 478 for Intel® Pentium® M/ Celeron® M processors with FSB 400/533 MHz; ULV Intel® Celeron® M processor 600MHz/512KB or 1GHz/ZC onboard   |
| System Memory       | 2 x 240-pin DIMM supports DDR2-400/533 max. up to 2GB   |
| Chipset             | Intel® 910GMLE + ICH6M  |
| BIOS                | Phoenix-Award BIOS  |
| SSD                 | 1 x CompactFlash™ type-II   |
| Watchdog Timer      | 255 levels, 1-255 sec.  |
| Expansion Interface | 1 x PCI for 32-bit PCI supports 4 bus masters   |
| Battery             | Lithium 3V/220 mAh  |
| Power Requirements  | *Intel® Pentium® M @2.0 GHz, 1GB DDR2<br>Max.: +5VSB @ 38mA, +3.3V@54mA, +5V@2.253A, -12V@22mA, +12V@1.361A<br>*Intel® Pentium® M @1.0 GHz, 1GB DDR2<br>+5V_SBY @ 29mA, +3.3V @ 41mA, +5V @ 2.553A, +12V (System) @ 30mA, -12V @ 21mA, +12V (CPU) @ 332mA |
| Size                | 185 x 122 mm  |
| Board Thickness     | 1.6 mm  |
| Temperature         | 0°C ~ +60°C (32°F ~ 140°F), operation   |
| Relative Humidity   | 10% ~ 95% relative humidity, non-condensing   |

## I/O

|                     |  |
|---------------------|--|
| MIO                 | 1 x IDE; PATA-100<br>1 x FDD/LPT(default); with SPP/EPP/ECP supported<br>1 x PS/2 keyboard<br>1 x PS/2 mouse<br>1 x RS-232 (COM 1)<br>1 x RS-232/422/485 (COM 2) |
| SATA                | 2 x SATA-150   |
| Hardware Monitoring | Detect CPU/system temperature, voltage and fan speed   |
| Ethernet            | 2 ports as 10/100/1000Mbps support Wake-on-LAN, RPL/PXE Boot ROM with Realtek RTL8111B   |
| Audio               | AC'97 Codec audio as MIC-in/Line-in/Line-out/speaker out with Realtek ALC203   |
| USB                 | 4 x USB 2.0  |
| SMBus               | System Management Bus for advanced monitoring/control  |

## Display

|                   |  |
|-------------------|--|
| Chipset           | Intel® GMA 900 graphics Core   |
| Memory Size       | Intel® DVMT 3.0 compliant  |
| Display Interface | 1 x VGA<br>1st LVDS; 18/24-bit single/dual channel<br>2nd LVDS; 18/24-bit single/dual channel (optional)<br>1 x DVI-D (optional) |

## Packing List

| Standard  |  |     |
|---|--|-----|
| Quick installation guide, user's manual/utility CD, cable |  |     |
| Cable   |  |     |
| Part Number   | Description                                | Qty |
| 5938450000E   | COM + Print cable w/ bracket               | 1   |
| 59382601000E  | Ultra DMA66 IDE cable 40-pin 455mm         | 1   |
| 593826A0000E  | SATA signal cable 500mm                    | 1   |
| 59382631000E  | 2 x USB 2.0 wafer cable with bracket 180mm | 1   |
| 59384500100E  | Audio cable with bracket 2.0 pitch 450mm   | 1   |

## Ordering Information

| Standard                                      |  |
|---|--|
| SBC82820DGGGA (P/N: E382820101)               | Socket 478 PICMG 1.0 half-size CPU card with DVI-I, LVDS, 2 10/100/1000Mbps Ethernet audio and 4 USB                           |
| SBC82820DGGGA-1GE (P/N: E382820100) (fanless) | PICMG 1.0 half-size CPU card with ULV Intel® Celeron® M 1 GHz/ZC CPU, DVI-I, LVDS, 2 10/100/1000Mbps Ethernet, audio and 4 USB |
| Optional                                      |  |
| 594826A0010E                                  | DVI-I to CRT & DVI-D Y-cable   |
| E39A003100                                    | CK9A003; 1 x audio cable, 4 USB 2.0 cables   |