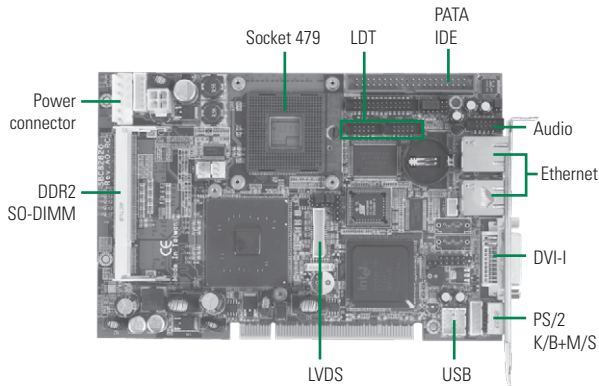


# SBC82820

Socket 479 Intel® Pentium® M PICMG 1.0  
PCI Half-size CPU Card with Intel® 910GML E  
+ ICH6M Chipset, DVI-I/LVDS, Dual LANs  
and Audio



## System

CPU	Socket 479 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 200-pin SO-DIMM support DDR2-400/533 max. up to 2 GB
Chipset	Intel® 910GML E + 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 Max.: +5VSB @ 38mA, +3.3V@54mA, +5V@2.253A, -12V@22mA, +12V@1.361A *Intel® Pentium® M @1.0 GHz, 1GB DDR2 +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° ~ +60°C (32°F ~ 140°F), operation
Relative Humidity	10% ~ 95% relative humidity, non-condensing

## I/O

MIO	1 x IDE; PATA-100 1 x FDD/LPT(default); with SPP/EPP/ECP supported 1 x PS/2 keyboard 1 x PS/2 mouse 1 x RS-232 (COM 1) 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

## Features

- Socket 479 for Intel® Pentium® M/ Celeron® M processors with FSB 400 MHz
- Intel® 910GML E + ICH6M chipset
- 2 DDR2 SO-DIMM support up to 2 GB memory
- Dual 10/100/1000 Ethernet and Audio
- DVI-I for VGA and DVI-D display output

## Display

Chipset	Intel® GMA 900 graphics core
Memory Size	Intel® DVM T 3.0 compliant
Display Interface	1 x DVI-I combined with CRT 1st LVDS; 18/24-bit single/dual channel 2nd LVDS; 18/24-bit single/dual channel (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, L=180mm	1
59384500100E	Audio cable with bracket 2.0 pitch 450mm	1

## Ordering Information

### Standard

SBC82820DGGA (P/N: E382820101)	Socket 479 PICMG 1.0 half-size CPU card with DVI-I/LVDS, 2 10/100/1000Mbps Ethernet audio and 4 USB
SBC82820DGGA-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