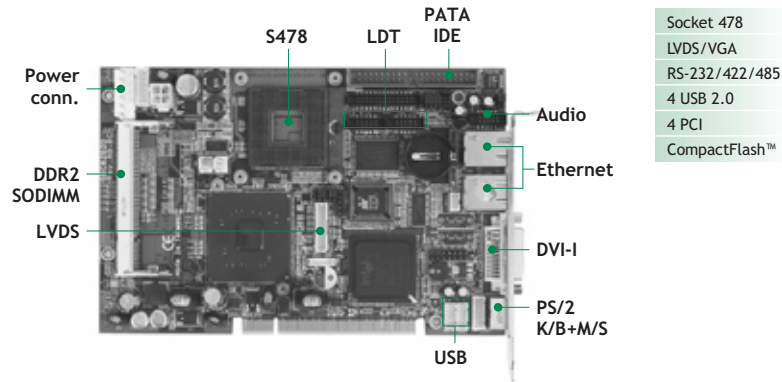


# SBC82820

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



## System

CPU	Socket 478 for Intel® Pentium® M/Celeron® M processor with FSB 400 MHz
System Memory	2 x 200-in DDR2-400 DIMM max. up to 2 GB
Chipset	Intel® 910GML+ICH6M
BIOS	Phoenix-Award BIOS
SSD	1 x CompactFlash™ type-II socket
Watchdog Timer	255 levels, 1-255 sec.
Expansion Interface	PCI with 4 bus masters
Battery	Lithium 3V/196mAH
Size	185 x 122mm
Temperature	0°C - +60°C (32°F - 140°F), operation
Operation Humidity	10% - 95% relative humidity, non-condensing

## I/O

MIO	1 x IDE; PATA-100 1 x FDD (optional; layout shared with LPT port) 1 x PS/2 keyboard 1 x PS/2 mouse 1 x LPT; with SPP/EPP/ECP supported 1 x RS-232 (COM 1) 1 x RS-232/422/485 (COM 2)
SATA	2 x SATA-150
Hardware Monitoring	Support CPU/System temperature, CPU/System voltage, and CPU/System fan features
Ethernet	2 port 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 interface

## Features

- Socket 478 for Intel® Pentium® M/Celeron® M processor with FSB 400 MHz
- Intel® 910GML+ICH6M chipset
- 2 DDR2 SODIMM 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® 910GML GMCH integrated graphics engine
Memory Size	Dedicated frame buffer up to 8MB and DVMT up to 128MB
Resolution	* VGA up to 2048 x 1536 @ 75 Hz with 32-bit color * LVDS up to 1600 x 1200 * DVI-D up to 2048 x 1536
Output Interface	* DVI-I edge connector includes VGA & DVI-D * LVDS with 1 x 40-pin JST connector

## Packing List

Standard			
Quick installation guide, user's manual/utility CD, cable			
Cable			
Part Number	Description	SBC82820DGGA Qty	SBC82820DGGA-1GE Qty
5938450000E	COM + Print cable w/ bracket	1	1
5938260100E	Ultra DMA66 IDE cable 40-pin 455mm	1	1
593826A0000E	SATA signal cable 500mm	1	1
59382631000E	2 x USB 2.0 wafer cable with bracket 180mm	1	1
59384500100E	Audio cable with bracket 2.0 pitch 450mm	1	1

## Ordering Information

Standard	
SBC82820DGGA (P/N: E382820101)	Socket 478 PICMG 1.0 half-size CPU card with DVI-I, LVDS, 2 10/100/1000Mbps, audio and 4 USB
SBC82820DGGA -1GE (P/N: E382820100)	PICMG 1.0 half-size CPU card with ULV Intel® Celeron® M 1 GHz/ZC CPU, DVI-I, LVDS, 2 10/100/1000Mbps, 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



SBC Services and Solutions

System-on-a-Module Solutions

Embedded SBCs > 5.25" Petit

Embedded SBCs > EPIC

Embedded SBCs > 3.5" Capa

Embedded SBCs > Pico-ITX

Embedded SBCs > PC/104

Industrial Motherboards

Slot CPU Cards

Accessories

Appendix