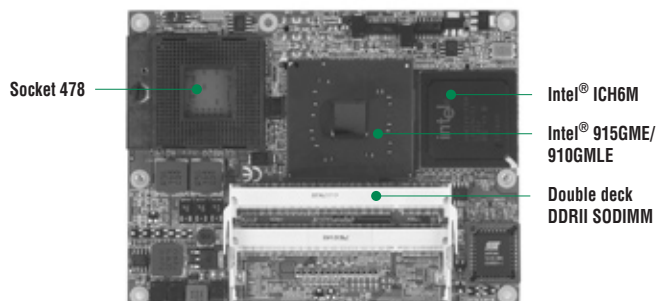


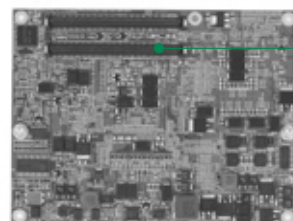
CEM820

Intel® Pentium® M COM Express™ Type-II Module



Features

- ▶ Intel® Pentium® M / Celeron® M processor
- ▶ Intel® 915GME/910GMLE+ICH6M chipset
- ▶ DDR2 400/533 up to 2GB
- ▶ With high performance integrated graphic controller and discrete solution through PCIe x16 interface
- ▶ 19 lanes for PCIe
- ▶ 8 USB 2.0 ports



COM Express™ type II conn.

Rear view

System

CPU	Intel® Pentium® M / Celeron® M processor with FSB 400/533 MHz
System Memory	2 x 200-pin SODIMM support DDR2 PC2-3200/4200 max. up to 2GB
Chipset	Intel® 915GME/910GMLE+ICH6M chipset
BIOS	Phoenix-Award 4Mbit with RPL/PXE LAN Boot ROM, SmartView and Customer CMOS Backup
Watchdog Timer	255 levels as Reset from 0~255 seconds
Expansion Interface	* 19 lanes for PCIe; one PCIe x16 for discrete graphic card or SDVO for converting solution; four PCIe x1 for add-on peripherals * PCIe Mini card specifications supported * 32-bit/33MHz PCI for 4 Bus masters
Size	125 x 95 mm
Temperature	0~60°C, operation
Operation Humidity	10% ~ 95% relative humidity, non-condensing

Packing List

Quick installation guide, manual, driver, utility CD

I/O

MIO	1 x PATA-100 IDE, 2 x SATA-150, LPC interface
GPIO	4 channel IN and 4 channel OUT
Ethernet	Realtek RTL8111B for Gigabit Ethernet
Audio	AC'97/HD Audio interface for external Codec
USB	8 x USB 2.0 port
SMBus	1 port
I ² C	1 port

Ordering Information

Standard	
CEM820VG	COM Express type-II module with socket 478, CRT/LVDS LCD, Gigabit Ethernet
CEM820VG-1GE	CEM820 with Intel® Celeron® M ULV 1GHz/ZC CPU onboard, CRT/LVDS LCD, Gigabit Ethernet
Optional	
507CEM83020E	CEM830 heatspreader module for PGA type CPU
507CEM83030E	CEM830 heatspreader module for BGA type CPU
CEB94000	ATX form factor baseboard

Display

Chipset	Integrated in Intel® 915GME/910GMLE
Memory Size	Max. up to 128MB frame buffer sharing system memory
Resolution	* Standard Display Mode: CRT: 2048 x 1536; LVDS LCD: 1600 x 1200
Output Interface	* CRT for DAC output through interface connector * LVDS LCD through interface connector