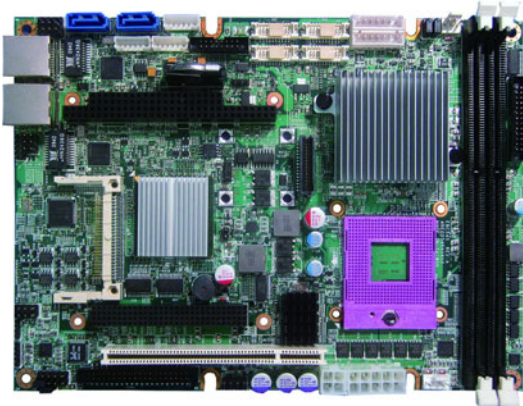




Single Board Computer 545

PBAS5300/-1/-2/-3/-4/-5

The SBC 545 is a 5.25" form factor embedded utilizing Intel® Core™ 2 Quad, Core™ 2 Duo and Celeron® 575 Processor. The SBC 545 features Intel® GM45 and ICH9-M chipsets, which supports DDR3 1.066MHz DRAM. The multi expansion features via 1x PCIe, PCI and PC 104+ for different application at your system device. The SBC 545 embedded board supports a various operation systems such as Windows7 embedded, Windows XP embedded, Win CE and Linux.



Main Features

- ❑ Support Intel® Core™ 2 Quad, Core™ 2 Duo, Celeron® Processor
- ❑ Intel® GM45 with GMA4500MHD Graphic Engine
- ❑ 2x 240-pin DDR3 DIMM socket, up to 8GB non-ECC 1.066MHz DRAM
- ❑ 2x Intel® 82574L PCI Express Gigabit Ethernet
- ❑ 1x Realtek ALC888 HD CODEC
- ❑ 6x USB 2.0, 4x Serial port, 4x SATA
- ❑ 1x PCI Slot/1x PCI 104+ slot

Technical Specifications

CPU Support

- Intel® Core™ 2 Quad (Q9100 2.26GHz) (non longevity CPU)
- Intel® Embedded Processor List (Intel® longevity CPU):
- Intel® Core™ 2 Duo (T9400 2.53GHz)
- Intel® Celeron® 575 2.0GHz

Main Memory

- 2x 240-pin DDR3 DIMM Socket, up to 8GB non-ECC 1.066MHz DRAM

Chipset

- Intel® GM45
- Intel® ICH9-M

BIOS

- Award system BIOS
- PnP and ACPI support
- 8M bits SPI ROM

On-board LAN

- 2x Intel® 82574L PCI Express GbE
- Support PXE and Wake on LAN (when 5Vsb available) (LAN1, LAN2 both)
- 2x RJ45 (180/90 option)

Display

- Intel® GM45 integrated GMA4500MHD Graphic engine
- Analog VGA Interface:
 - One 2x10 2.0mm box header
 - Resolution up to 1.600x1.200 at 85Hz, 2.048x1.536 at 75Hz
- LVDS1 Interface:
 - 2x 20-pin LVDS connector for internal connection support single (24bit) or dual pixel (48bit) LVDS panel
- LVDS2 (Through SDVOB) Interface:
 - 2x 20-pin LVDS connector for internal connection support single (24bit) or dual pixel (48bit) LVDS panel
- SDVO Interface (option, one 30-pin box header):
 - PBAS5300-1 (w/DVI transmitter w/ DVI-Single link output)
 - PBAS5300-2 (w/DVI for LVDS output)
- CCFL Interface:
 - 2x CCFL for Panel Backlight Inverter
- Composition: VGA+LVDS, VGA+DVI, LVDS+DVI, LVDS1+LVDS2

Audio

- Realtek ALC888 HD CODEC
- 1x Mic-in/1x Line-out

Expansion

- 1x PCIe x1
- 1x PCI
- 1x PC 104+

I/O Interface

- Serial port: 3x COM support RS232 and 1x COM support RS232/RS422/RS485 (BIOS setting)
- Parallel port: 1x 26-pin box header
- USB 2.0: 6x ports, 2x edge ports, 2 ports by JST, 1x pin header for uDOM
- 8 GPIO lines via header (GPI 0-3 and GPO0-3) TTL Level (0/5 V)
- 2x 2-pin 2.54mm header for Power LED/HDD Power LED
- 1x 4-pin and 1 x 3-pin Fan connector
- 1x PS/2 KB/MS via pin header
- On board Buzzer/SMBus2.0 /Reset SW
- 1x 5-pin header for IrDA

Watchdog Timer

- WDT can be programmable by Software from 1 sec to 255 sec and from 1 min to 255 minutes (Tolerance 15% at 25°C)

Power Requirements

- Supports both AT and ATX Mode (default setting is ATX mode)
- ATX mode:
 - 2x5pin ATX power connector w/ +12V/-12V/+5V/5Vsb Power In
 - 2x2pin power connector +12V Power In for PCIe x16 Card
 - At ATX Mode, the BIOS setting is as follow:
 - POWER-SUPPLY TYPE: [ATX]
 - AUTO PWR-FAILURE RESUME: [ON]
- AT mode:
 - 2x5pin ATX power connector w/ +12V/-12V/+5V Power In
 - No Power On push Button, Software Shutdown function and LAN remote wake up

