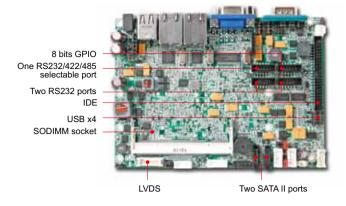
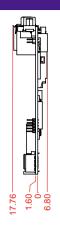
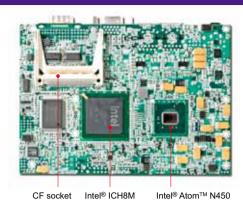


PEB-2770/2780

3.5" Embedded size, based on Intel® 45nm **Low Power Pineview processor with DDR2** SODIMM, dual display by VGA/LVDS, Dual GbE. Audio. COM and USB





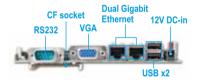


The PEB-2770/2780 takes advantage of the latest Intel® Atom™ technologies. It supports DDR2 SDRAM, dual gigabit ethernet and one expansion PCI Express x1 female header. Based on Intel® Atom™ solutions, the fanless PEB-2770/2780 executes high performance with low power dissipation. Therefore, it's applied to Panel PC, Kiosk, DS, Medical, Military and industrial automation.

FEATURES

- Intel® Atom™ processor D510/N450 and ICH8M chipset
- MPEG2 Decode in HW; Dual independent display: VGA/18-bit LVDS
- Dual Gigabit Ethernet
- Customization (Extension card): BTB connector with PCle x1 signal
- Storage: One SATA/One CompactFlash/ Two SATA ports
- 12V DC input

REAR/10



ORDERING GUIDE

AB1-3588	PEB-2770VG2A.Intel Pineview 1.66G D510 on
	Board without Thermal module.EBC.w/VGA/
	Dual GbE/COM/Audio/USB
AB1-3589	PEB-2780VG2A.Intel Pineview 1.66G N450 on
	Board without Thermal module.EBC.w/VGA/
	Dual GbE/COM/Audio/USB

PACKING LIST

One PEB-2770/2780 Main Boar	rd
One Thermal Kit	
One Installation CD	
One SATA Cable	
One ATX Power Cable	

GENERAL	
Processor	 Intel® Atom™ Processor D510 (1.66Ghz, 13W)/N450 (1.66Ghz, 5.5W) with 1M/512K L2 Cache in FCBGA437 package DMI: 2.5 GT/s Supports Intel® Hyper-Threading Technology, Intel® 64 Architecture, SpeedStep® Technology (N450 only), Thermal Monitoring Technology (N450 only)
Chipset	Intel® ICH8M (2.4W) supports Intel® AHCI Technology.
BIOS	AMI Core 8 BIOS
Memory	Supports up to 2GB DDR2 667 MHz SDRAM on one 200-pin SODIMM socket
Storage Devices	 2x SATA II supports 3.0Gb/s data transfer rate 1x CompactFlash socket supports Ultra DMA100/66/33 MB/s 1x IDE connector supports Ultra DMA100/66/33 MB/s
Watchdog Timer	Programmable via S/W from 1 sec. to 255 sec.
Hardware Monitoring	- Temperature (CPU & System) - Voltage (CPU Vcore, VBAT, 5VSB, 12V, 5V, 3.3V)
Expansion Interface	1x PCIExpressx1 female header (Gen 1, 2.5 GT/s)

I/O INTERFACE

" O II (I E I (I / (O I	
Super I/O	Winbond W83627UHG
Audio	 Intel® ICH8M built-in High Definition Audio up to 192-kHz 32-bit Realtek ALC262-VC2-GR HDA codec, 5.1 channels Audio on board header with Line-in, Line-out and Microphone
Ethernet	 Intel® WG82567V gigabit phy and 82583V Gigabit Ethernet controllers 2x RJ45 connectors on rear I/O
Serial Port	 1x RS232/422/485 port with DB9 connector on rear I/O 2x RS232 with on board pin headers 1x RS232/422/485 with on board pin header
USB	 2x USB 2.0 ports on rear I/O 4x USB 2.0 ports on board with pitch 2.0 header 480 Mb/s bus comprehends the high-speed/full-speed/low-speed data ranges
Keyboard & Mouse	1x PS/2 Keyboard & Mouse on board header
GPIO	On board programmable 8-bit Digital I/Os

DISPLAY

DIOI LAI	
Graphic Controller	 Intel® D510/N450 integrated Generation 3.5/2.5 graphics, supports DX9 Graphics up to 400MHz/200MHz Supports Intel® Dynamic Video Memory Technology (Intel® DVMT 3.0)
Display Interface	 LVDS: Single channel 18-bit LVDS, resolution up to 1366x768, 18bpp VGA: One DB-15 connector on rear IO, resolution up to 2048 x 1536 (QXGA)

Mechanical & Environment

Dimension 146(L) x 102(W)mm; 5.75"(L) x 4.02"(W) DC-12V input Power Supply - Operation Temperature: 0°C to 60°C Environment - Storage Temperature: -20°C to 80°C - Relative Humidity: 5% to 95%, non-condensing **MTBF** Over 120,000 hours at 40°C





















