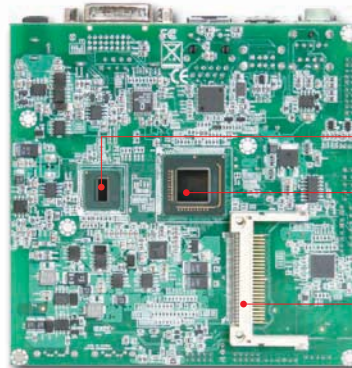
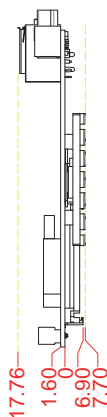
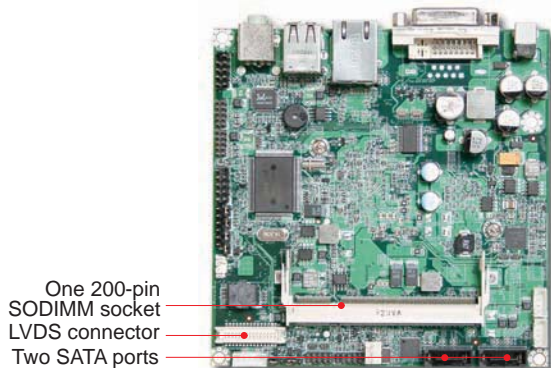




NANO-8045L

Intel® Ultra Low Power Atom™ Processor based NANO-ITX Board with dual display, Gigabit Ethernet, Audio, USB and SATA

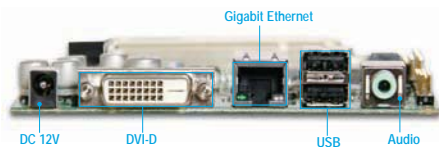


NANO-8045L takes advantage of the latest Intel® Atom™ technologies. It supports DDR2 SDRAM, dual displays, one Gigabit Ethernet. Base on leading Intel® Atom™ solution, NANO-8045L is a compact and ultra low power dissipation board for Medical, Mobile Gaming and DS applications.

FEATURES

- Intel® Atom™ processor Z510 / Z530 and System Controller Hub US15W
- Dual independent display: DVI-D and 24bit LVDS
- One Type II Compact Flash & two SATA ports
- One Realtek Gigabit Ethernet
- Support DC 12V input
- Only 17mm height for rear I/O

REAR/I/O



ORDERING GUIDE

AB1-3347	NANO-8045L-1100.Nano-ITX ESB.Intel Atom 1.1G.w/DDR SDRAM/DVI/LVDS/SATA/LAN.w/o rear I/O Audio and COM port connector.
AB1-3346	NANO-8045L-1600.Nano-ITX ESB.Intel Atom 1.6G.w/DDR SDRAM/DVI/LVDS/SATA/LAN.w/o rear I/O Audio and COM Port Connector

PACKING LIST

One NANO-8045L NANO-ITX Main Board
One 2-in-1 Heatsink
One Installation CD
One SATA Cable

GENERAL

Processor	- Intel® Atom™ Processor Z510(1.1GHz, 2.2W)/Z530(1.5GHz, 2W) with 512K L2 Cache in PBGA441 package - FSB: 400/533MHz - Support Enhanced Intel SpeedStep®, Thermal Monitoring Technology
Chipset	Intel® System Controller Hub US15W(2.3W)
BIOS	AMI Core 8 BIOS
Memory	Support up to 2GB DDR2 400/533 MHz SDRAM on one 200-pin SODIMM socket
Storage Devices	- 2x SATA II supports 3.0Gb/s data transfer rate by JMB362 SATA Host - 1x Type II CompactFlash® socket supports Ultra DMA 133/100/66/33 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)

I/O INTERFACE

Super IO	Winbond W83627DHG
Audio	- Intel® US15W built-in High Definition Audio up to 192-kHz 32-bit - Realtek ALC262-VC2-GR HDA codec, 2.1 channels - Audio Jack on rear IO with Line-out - Audio on board header with Line-out and Mic-in
Ethernet	- Realtek RTL8111C-VC-GR gigabit ethernet controller - 1x RJ45 connector on rear IO
Serial Port	N/A
USB	- 2x USB 2.0 ports on rear IO - 4x USB 2.0 ports on board with pitch 2.0 header, one can support client USB - 480 Mb/s bus comprehends the high-speed / full-speed / low-speed data ranges
GPIO	On board programmable 8-bit Digital I/Os

DISPLAY

Graphic Controller	- Intel® System Controller Hub US15W integrated Intel® GMA 500 supports full hardware acceleration of video decode standards, such H.264, MPEG2, MPEG4 and WMV9 - Chronitel CH7307C DVI Transmitter
Display Interface	- LVDS: Single channel 24bit LVDS - DVI-D: One DVI-D connector on rear IO, resolution up to 1600x1200 (UXGA)

Mechanical & Environment

Dimension	120(L) x 120(W) mm; 4.72"(L) x 4.72"(W)
Power Supply	DC-12V input
Environment	- Operation Temperature: 0°C to 55°C - Storage Temperature: -20°C to 85°C - Relative Humidity: 5% to 95%, non-condensing
MTBF	140,738 hours at 40°C

