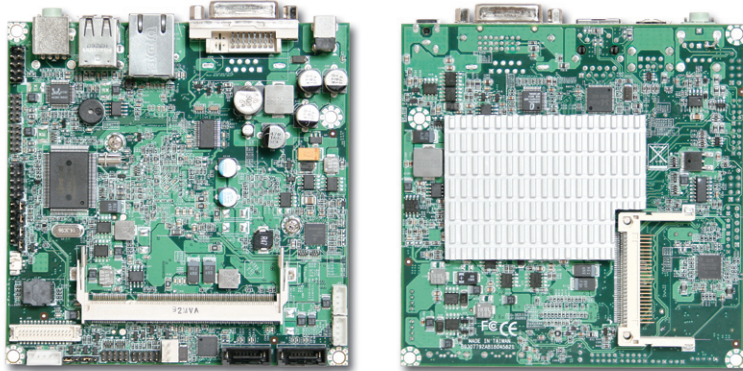# NANO-8045L

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

FEATURES

- Intel® Atom™ processor Z510 / Z530 and System Controller Hub US15W
- One 200-pin SO-DIMM supports DDR2 SDRAM up to 2GB
- 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

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.

SYSTEM

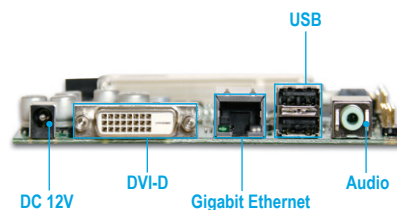|	
CPU	Intel® Atom™ processor Z510 / Z530
FSB	400/533 MHz
BIOS	AMI BIOS
System Chipset	Intel® System Controller Hub US15W
System Memory	One 200pin SO-DIMM support DDR2 400/533MHz up to 2GB
Storage	- 2 x SATA II - 1 x CF (up to UDMA5 mode)
Watchdog Timer	Programmable via S/W from 1sec. to 255sec.
H/W Monitor	- Temperature (CPU and System) - Voltage (CPU Vcore, VBAT, 5VSB, 12V, 5V, 3.3V)
GPIO	On board programmable 8-bit Digital I/Os
Expansion	N/A

On Board I/O

USB	Four USB 2.0 ports, Pitch 2.00mm, one can support client USB
Others	One 24 bits LVDS, 8 bit GPIO pin header, Line-out and Mic-in pin header

Rear I/O

Display	One DVI-D (by Chrontel CH7307C)
Gigabit Ethernet	One RJ-45 LAN port
USB	Two USB 2.0 ports
Audio Interface	Line-out

DISPLAY

Graphic Controller	Intel® System Controller Hub US15W integrated GMA 500 Graphics device
Display Interface	DVI-D / single channel 24-bit LVDS

MECHANICAL & ENVIRONMENTAL

Operating Temperature	0~60°C
Storage Temperature	-20~80°C
Operating Humidity	5%~95% non-condensing
Dimension	4.72" x 4.72" (120 mm x 120 mm)

REAR I/O

USB

DC 12V   DVI-D   Gigabit Ethernet   Audio

ORDERING GUIDE

- **NANO-8045L-1100**
  Intel® Atom™ processor Z510 Nano-ITX Board

- **NANO-8045L-1600**
  Intel® Atom™ processor Z530 Nano-ITX Board