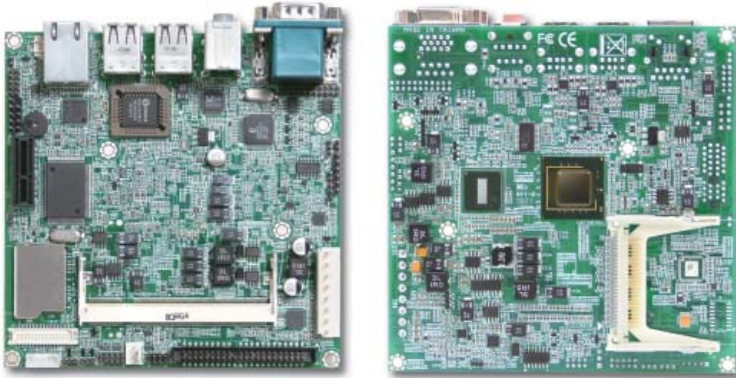




NANO-8044

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



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: VGA and 24bit LVDS
- One Type II Compact Flash & one IDE connector
- One Intel® Gigabit Ethernet



NANO-8044 takes advantage of the latest Intel® Atom™ technologies. It supports DDR2 SDRAM, dual displays, one Gigabit Ethernet and one expansion PCI-Express x1 slot. Base

on leading Intel® Atom™ solution, NANO-8044 is a compact and ultra low power dissipation board for Medical, Mobile Gaming and DSS 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	- 1x 44 pin IDE - 1 x CF (up to UDMA5 mode) - 1 x SD
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	One PCI-Express x1 slot

On Board I/O

USB	Two USB 2.0 ports, Pitch 2.00mm
Others	One 24 bits LVDS, 8bit GPIO pin header, one SD

Rear I/O

Serial Port	One RS232/422/485 port
Display	One VGA (by Chrontel CH 7317A)
Gigabit Ethernet	One RJ-45 LAN port
USB	Four USB 2.0 ports
Audio Interface	Line-out and Mic-in

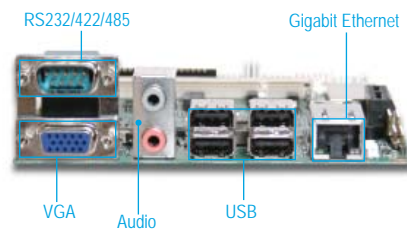
DISPLAY

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

MECHANICAL & ENVIRONMENTAL

Operating Temperature	0-55°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



ORDERING GUIDE

- **NANO-8044-1100**
Intel® Atom™ processor Z510 Nano-ITX Board
- **NANO-8044-1600**
Intel® Atom™ processor Z530 Nano-ITX Board
- **PER-4110R**
One slot PCI-E x1 riser card