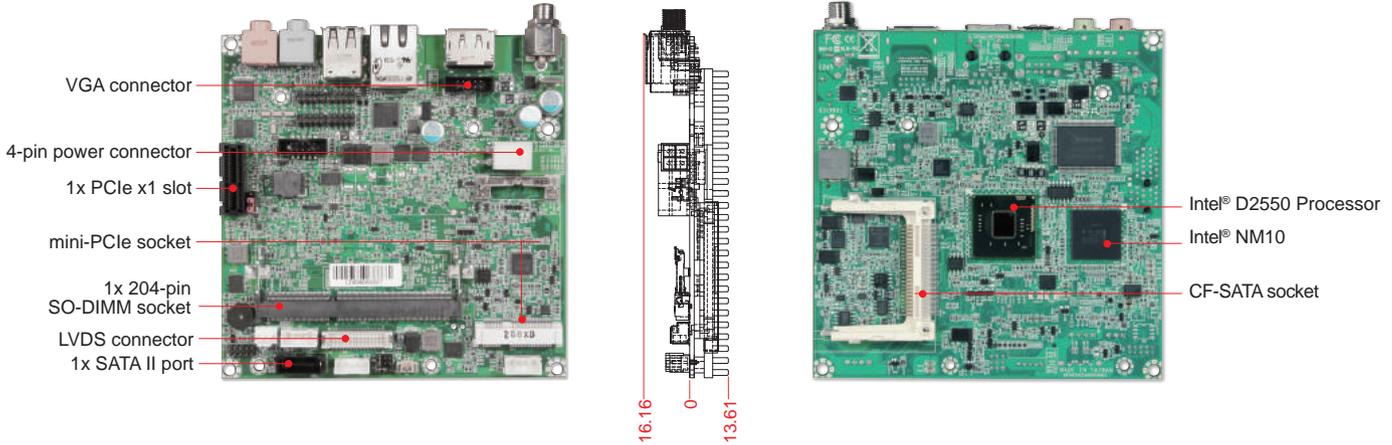


NANO-5050

Intel® Atom™ D2550 processor based NA-NO-ITX Board with dual display, Gigabit Ethernet, Audio, USB, CF-SATA and SATA



NANO-5050 adopts latest Intel® Atom™ D2550 CPU and NM10 chipset which is for the low power compact size system. The new architecture integrates the 3D graphics engine and memory controller. It's suitable for Medical and Networking applications.

FEATURES

- Intel® Atom™ D2550 1.86GHz processor based on Intel® NM10 platform
- 1x 204-pin SO-DIMM supports DDR3 up to 4GB
- Multiple display by VGA, DP, single channel 24 bit LVDS
- Supports 1x CF-SATA socket and 1x SATA port
- 1x mini-PCIe socket and PCIe x1 slot for expansion
- Supports DC 12V input

REAR I/O



ORDERING GUIDE

AB1-3863	(R).NANO-5050 Nano-ITX ESB. Intel® ATOM D2550 1.86GHz.w/ DDR3 SO-DIMM/VGA/LVDS/DP/GbE LAN/CF-SATA
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PACKING LIST

One NANO-5050 NANO-ITX Main Board
One passive Heatsink
One Installation CD

GENERAL

Processor	- Intel® Atom™ Processor D2550 (1.86GHz, 10W) with 1MB L2 Cache in FCBGA559 package - FSB: 400/533MHz - Supports Intel® Hyper-Threading Technology
Chipset	Intel® NM10 Express chipset
BIOS	Phoenix uFEI BIOS (SPI ROM)
Memory	Supports up to 4GB DDR3 800/1066 MT/s SDRAM on one 204-pin SO-DIMM socket
Storage Devices	- 1x CF-SATA (supports CF and CF-SATA card) - 1x SATA II
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 PCIe x1 slot (Gen 1, 2.5 GT/s) - 1x mini-PCIe slot (Gen 1, 2.5 GT/s)

I/O INTERFACE

Super I/O	Winbond W83627DHG-PT
Audio	- Intel® NM 10 built-in High Definition Audio up to 96-kHz 24-bit - Realtek ALC886-GRHDA codec, Audio Jack on rear I/O with Line-out and Mic-in
Ethernet	- Intel® 82583V Gigabit Ethernet controller - 1x RJ45 connector on rear I/O
Serial Port	1x RS232/422/485 on board connector
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
GPIO	On board programmable 8-bit Digital I/Os

DISPLAY

Graphic Controller	- Intel® Atom™ D2550 integrated Intel® GMA 3650 supports full hardware acceleration of video decode standards, such as DirectX 9
Display Interface	- LVDS: Single channel 24bit LVDS on board connector, up to 1440x900 - VGA: 1x on-board DB-15 connector, up to 1920x1200 (WUXGA) - DP: 1x DP port on rear I/O, up to 2560x1600

Mechanical & Environment

Dimension	120mm(L) x 120mm(W) ; 4.72"(L) x 4.72"(W)
Power Supply	DC-12V input
Environment	- Operation Temperature: 0°C~55°C - Storage Temperature: -20°C~85°C - Relative Humidity: 5%~95%, non-condensing
Certification	CE, FCC Class A
MTBF	Over 120,000 hours at 40°C

