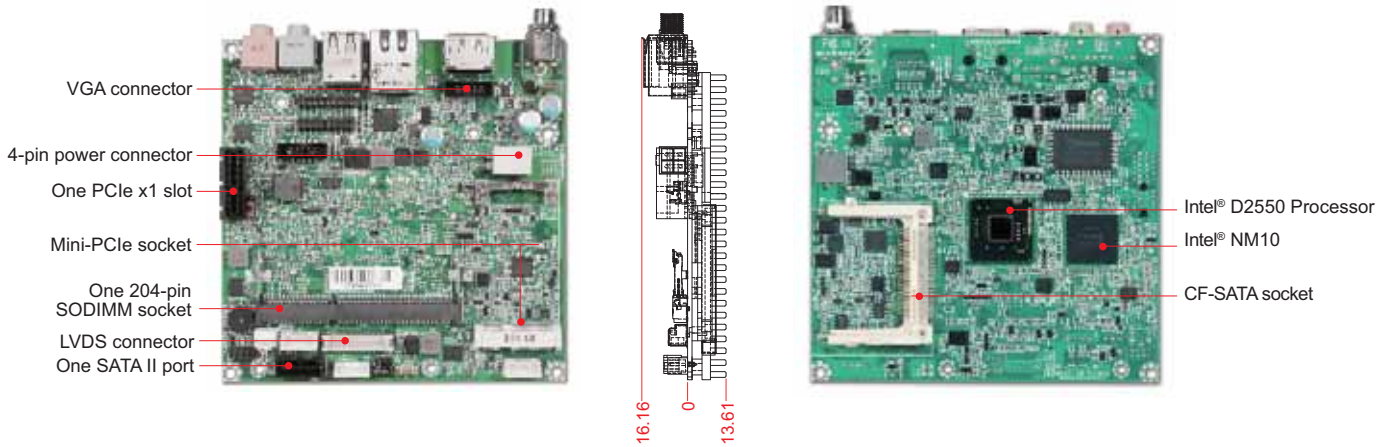


NANO-5050

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

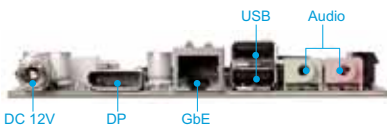


NANO-5050 adopts latest Intel® Atom™ D2550 CPU and NM10 chipset which is for the low power compact size system. The new architecture integrates the 3D graphics engine and memory controller. It's suitable for Medical and Networking applications.

FEATURES

- Intel® Atom™ D2550 1.86GHz processor based on Intel® NM10 platform
- One 204-pin SODIMM supports DDR3 up to 4GB
- Multiple display by VGA, DP, single channel 24 bit LVDS
- Supports one CF-SATA socket and one SATA port
- One 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 |
|----------|---|

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 uEFI BIOS (SPI ROM) |
| Memory | Supports up to 4GB DDR3 800/1066 MHz SDRAM on one 204-pin SODIMM socket |
| Storage Devices | - 1x CF-SATA (supports CF and CF-SATA card) - 1x SATA supports 3Gb/s data transfer rate |
| 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 PCI Express 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, resolution up to 1440x900 - VGA: One on-board DB-15 connector, resolution up to 1920x1200 (WUXGA) - DP: One DP port on rear I/O, resolution up to 2560x1600 |

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 |
| Certification | CE, FCC Class A |
| MTBF | Over 120,000 hours at 40°C |

