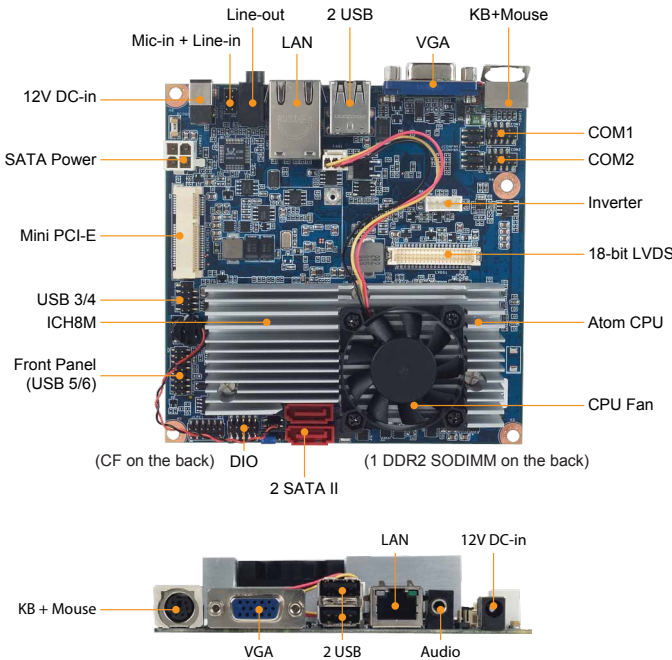


DS26A0-LNP

Intel® Atom™ N450/ D410/ D510 Nano-ITX Motherboard



Features

- Two chipset architecture
- Supports N450 (SC), D410 (SC), D510 (DC)
- Low TDP N450 (7.9W), D410 (13W), D510 (17W)
- Integrated Graphics Controller
- L2 Cache 1024Kb (D510) / 512Kb (N450, D410)
- 45nm technology
- 12V DC-in Power Solution

Specifications

System	
CPU	Onboard Intel® Atom™ N450 SC/ D410 SC/ D510 DC 1.6GHz Processor
FSB	DMI (2.5Gbps) x 4 Lanes
BIOS	AMI/Legacy 16Mb SPI BIOS
System Chipset	Intel® ICH8M
I/O Chip	Winbond W83627DHG-A
System Memory	One 200-pin SODIMM socket supports up to 2GB DDR2 800MHz(D510)/ 667MHz(D410/N450) SDRAM
Watchdog Timer	Reset: 1 to 255 sec/min per step
H/W Status Monitor	Monitoring CPU temperature, voltage, and cooling fan status. Auto throttling control when CPU overheats
Expansion	1 Mini PCI-E, 1 CF
Power State	S1, S3, S4, S5
TPM	Onboard TPM 1.2 by Infineon SLB9635 (optional)
Wake up on LAN or Ring	LAN (PXE), Ring (COM 1/2)
SmartFan Control	Supports 3 modes (Silent/Optimal/Performance)

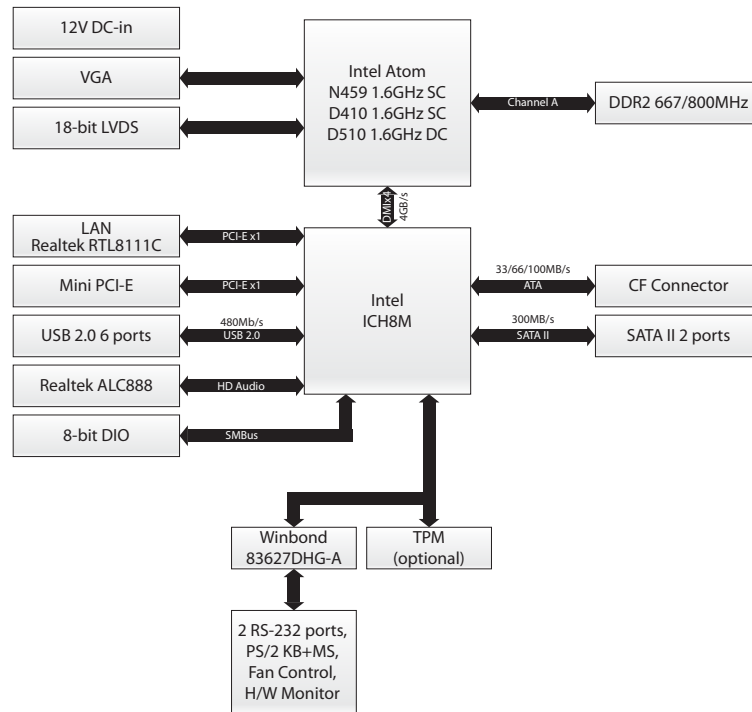
I/O	
MIO	2 SATA II, 2 COM RS-232, 1 PS/2 Keyboard, 1 PS/2 Mouse
USB	6 USB 2.0
GPIO	8-bit General Purpose I/O for 4-bit DI and 4-bit DO

Display	
Chipset	Integrated Intel® Gen3.5+GFX Render Core 200MHz (N450/D410)/400MHz (D510)
Display Memory	Shared Memory Max 224MB
Max. Resolution	LVDS : Max 1280 x 800 or 1366 x 768 VGA : Max 2048 x 1536 @ 60Hz
Dual Display	LVDS + VGA
VGA	On board
LVDS	18-bit Single Channel LVDS
LVDS Backlight	5V and 12V

Audio	
Audio Codec	Realtek ALC888, 5.1 + 2 CH HD Audio
Audio Interface	Line-in, Line-out, Mic-in

Ethernet	
LAN	Realtek RTL8111C Gigabit LAN

Block Diagram



Back Panel I/O Port

- 1 PS/2 Keyboard+Mouse
- 1 VGA Port
- 1 LAN RJ45 Port
- 2 USB 2.0 Ports
- 1 Line-out
- 1 12V DC-in

Internal I/O Connector

- 2 COM RS-232 Ports w/ Power
- 1 CPU Fan Connector
- 1 Front Panel Header supports 2 USB Ports
- 1 USB Connector supports 2 USB Ports
- 1 18-bit LVDS Connector
- 1 LVDS Invertor Connector
- 2 SATA II Connectors
- 1 CF Socket (on the back)
- 1 Digital I/O Header
- 1 Mic-in & Line-in Header
- 1 Mini PCI-E

Mechanical & Environmental

Power Requirement	+12V 3A
Power Type	12V DC-in
Power Connector	12V CPU Fan Connector
Operating Temperature	0 to 60°C (32 to 140°F)
Operating Humidity	0% to 90% relative humidity, non-condensing
Size (L x W)	4.72" x 4.72" (120 mm x 120 mm)
Weight	0.31 lbs (0.13Kg)/ 0.5 lbs (0.24Kg) with Fan