

DN2800MT

Mini-ITX Motherboard

Spotlight Features

- Intel® Atom™ CedarView Processor N2800
- Intel® NM10 Express Chipset
- Integrated Intel® PowerVR SGX545, DirectX 9.0, PS3.0
- Supports DDR3 1066MHz, 2 x SO-DIMM, up to 4GB system memory
- 2 x RS-232 COM
- 1 x HDMI, 1 x D-Sub, 1 x Dual Channel 24-bit LVDS
- 8 x USB 2.0, 2 x SATA2
- 1 x mini-PCIe, 1 x mSATA
- Gigabit LAN : 1 x Intel 82574L LAN
- 9~19V DC-in

Specifications

Processor System	
Dimension	Mini-ITX (6.7-in x 6.7-in)
CPU	Intel® Atom™ CedarView Processor N2800 Supports Hyper-Threading Technology
Core Number	2
Max Speed	N2800: 1.86 GHz
L3 Cache	N/A
Chipset	NM10
BIOS	UEFI
Expansion Slot	
PCI	0
Mini-PCIe	1(half size) + 1 (Full size) shared with m-SATA
mSATA	1 (shared with mini-PCIe)
PCIe	1 *1x
CFast Card Socket	0
Memory	
Technology	Single Channel DDR3 800/1066 MHz SDRAM
Max.	4 GB
Socket	2 x SODIMM
Graphics	
Controller	Intel® PowerVR SGX545, Support DirectX9 compliant Pixel Shader v3.0 and OGL 3.0
VRAM	share Memory
VGA	Supports max. resolution 1920 x 1200
LVDS	Dual channel 24-bit, max resolution 1920 x 1200@60Hz
HDMI	1
DVI	no
Display Port	no
Multi Display	Yes (Dual Display)
Ethernet	
Interface	10/100/1000 Mbps
Controller	GbE LAN Intel 82574L
Connector	1 x RJ 45
SATA	
Max Data Transfer Rate	SATA2 (3.0Gb/s)

Rear I/O	
VGA	1
HDMI	1
DVI-I/D	0
Display Port	0
Ethernet	1
USB	4 x USB 2.0
Audio	2 (Mic-in, Line-out)
Serial	0
PS/2	0

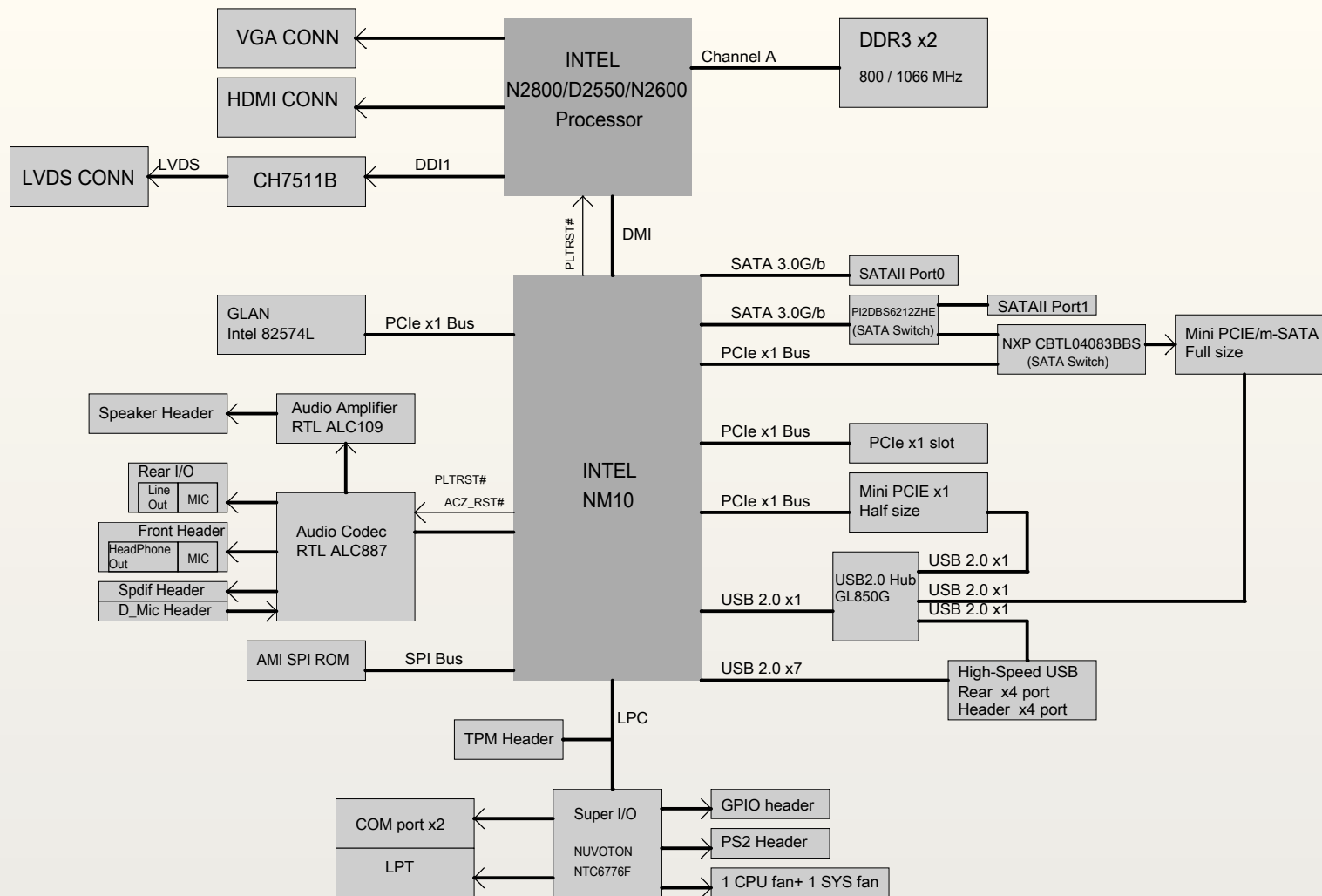
Internal Connector	
USB	4 x USB 2.0
LVDS/Inverter	1/1
VGA	1 (shared with rear I/O VGA)
Serial	2 x RS-232
SATA	2 x SATA2 (3.0Gb/s)
m-SATA	1
Mini-PCIe	1
Parallel	1
IrDA	1
GPIO	4 in / 4 out
SATA PWR Output Con	1
Speaker Header	1

Watchdog Timer	
Output	From Super I/O to drag RESETCON#
Interval	256 segments, 0,1,2...255sec/min

Power Requirements	
Input PWR	9~19V DC-In (2-pin PWR Con)
Power On	AT/ATX Supported AT : Directly PWR on as Power input ready ATX: Press Button to PWR on after Power input ready

Environment	
Operating Temperature	0°C – 60°C

Board Diagram



IPC Motherboards Focused Markets

ASRock IMB solutions can be widely used for industrial applications, such as process control, data acquisition, and so on. IMB-PCs are typically panel mounted and often incorporate touch screens for user interaction.

