



IMB-146

Mini-ITX Motherboard

Spotlight Features

- Intel® Dual-Core Atom™ CedarView Processor D2550/N2600/N2800
- Intel® NM10 Express Chipset
- Integrated Intel® PowerVR SGX545, DirectX 9.0, Pixel Shader 3.0
- Supports DDR3 1066MHz, 2 x SO-DIMM, up to 4GB system memory
- 1 x D-Sub, 1 x Dual Channel 24-bit LVDS
- 7 x USB 2.0, 2 x SATA2
- 1 x mini-PCle
- Gigabit LAN : 1 x Realtek RTL8111E-VL

Specifications

Processor System

Dimension	Mini-ITX (6.7-in x 6.7-in)
CPU	Intel® Dual-Core Atom™ CedarView Processor D2550/ N2600/N2800 Supports Hyper-Threading Technology
Core Number	2
Max Speed	D2550/N2800: 1.86 GHz, N2600: 1.6GHz
L3 Cache	N/A
Chipset	NM10
BIOS	UEFI

Expansion Slot

PCI	0
Mini-PCIE	1 (Half Size)
mSATA	0
PCIe x16 (Gen2)	0
CFast Card Socket	0

Memory

Technology	Single Channel DDR3 800/1066 MHz SDRAM
Max.	D2550/N2800: 4GB, N2600: 2GB
Socket	D2550/N2800: 2 x SO-DIMM, N2600: 1 x SO-DIMM

Graphics

Controller	Intel® PowerVR SGX545, Support DirectX9 compliant Pixel Shader v3.0 and OGL 3.0
VRAM	Shared Memory
VGA	Supports max. resolution 1920 x 1200
LVDS	Dual Channel 24bits, max resolution 1920 x 1200
HDMI	No
DVI	Supports max resolution 1920 x 1200 (option by cable)
Display Port	No
Multi Display	Yes

Ethernet

Interface	10/100/1000 Mbps
Controller	GbE LAN: 1 x Realtek RTL8111E-VL
Connector	1 x RJ-45

SATA

Max Data Transfer Rate	SATA2 (3.0Gb/s)
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Rear I/O

VGA	1
HDMI	0
DVI-I/D	0
Display Port	0
Ethernet	1
USB	4 (USB 2.0 compliant)
Audio	0
Serial	1 (RS-232)
PS/2	1 (Combo)

Internal Connector

USB	3 (USB 2.0 compliant)
LVDS/Inverter	2/2
VGA	0
Serial	1 (RS-232)
SATA	1x SATA2 (3.0Gb/s) 7-pin + 1x SATA2 (3.0Gb/s) 22pin
m-SATA	0
Mini-PCIE	1
Parallel	1
IrDA	0
GPIO	4 x GPI + 4 x GPO
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

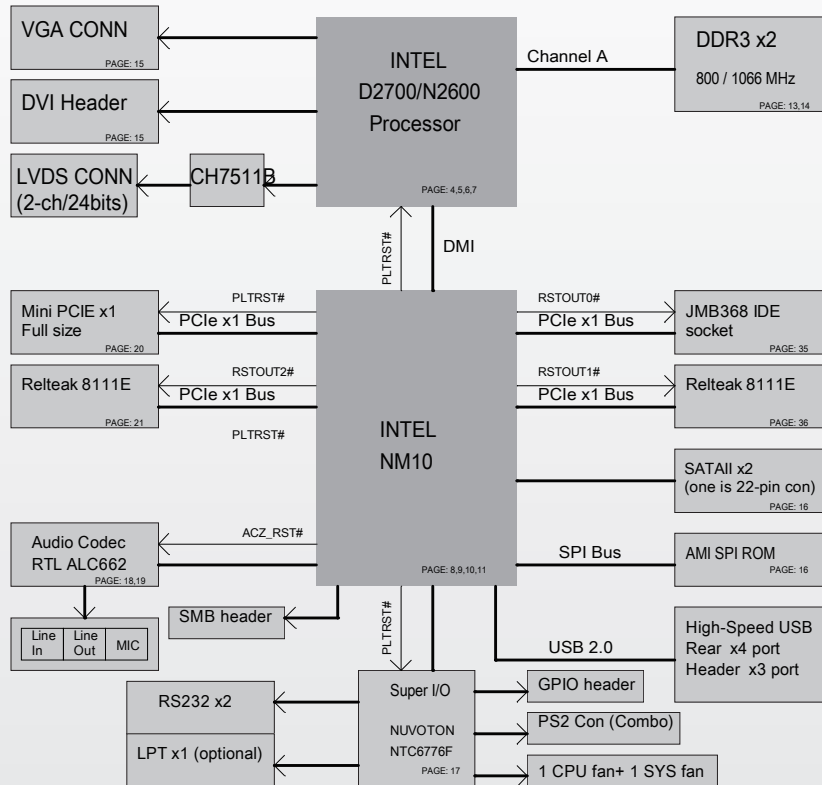
Power Requirements

Input PWR	12V DC-In (4-pin ATX PWR Con) & DC-IN Jack
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
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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.



Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

US

sales@assured-systems.com

Sales: +1 347 719 4508

Support: +1 347 719 4508

1309 Coffeen Ave
Ste 1200
Sheridan
WY 82801
USA

EMEA

sales@assured-systems.com

Sales: +44 (0)1785 879 050

Support: +44 (0)1785 879 050

Unit A5 Douglas Park
Stone Business Park
Stone
ST15 0YJ
United Kingdom

VAT Number: 120 9546 28

Business Registration Number: 07699660