



IMB-148

Mini-ITX Motherboard

Spotlight Features

- Intel® Atom™ CedarView Processor D2550
- 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
- 4 x COM (RS-232)
- 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
- Gigabit LAN : 1 x Realtek Lan
- 9~19V DC-in

Specifications

Processor System

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

Expansion Slot

PCI	0
Mini-PCIe	1(half size) PCIe only
mSATA	0
PCIe	1*1x
CFast Card Socket	0

Memory

Technology	Single Channel DDR3 800/1066 MHz SDRAM
Max.	4 GB
Socket	2 x SO-DIMM

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	Single channel 24-bit, max resolution 1440 x 900@60Hz
HDMI	1
DVI	no
Display Port	no
Multi Display	Yes (Dual Display)

Ethernet

Interface	10/100/1000 Mbps
Controller	GbE LAN Realtek
Connector	1 x RJ 45

SATA

Max Data Transfer Rate	SATA2 (3.0Gb/s)
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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	4 RS-232
SATA	2 x SATA2 (3.0Gb/s)
m-SATA	0
Mini-PCIe	1
Parallel	1
IrDA	0
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
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