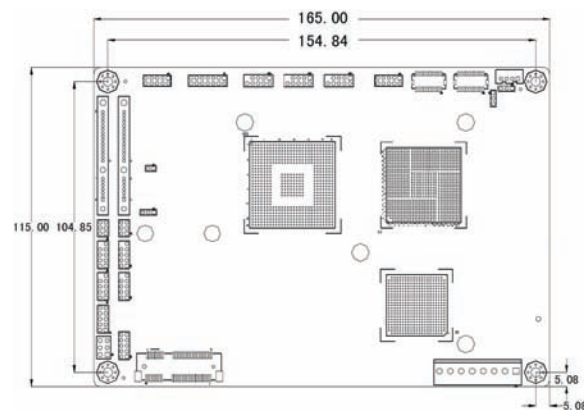
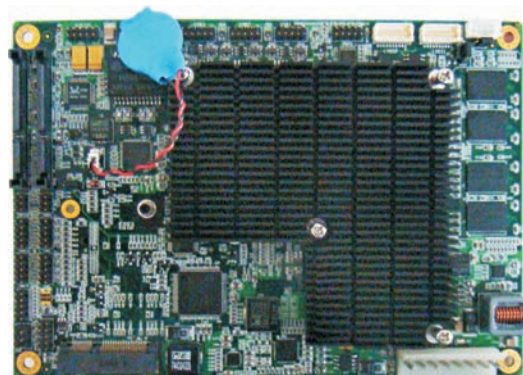


EC4-1812CLDNA

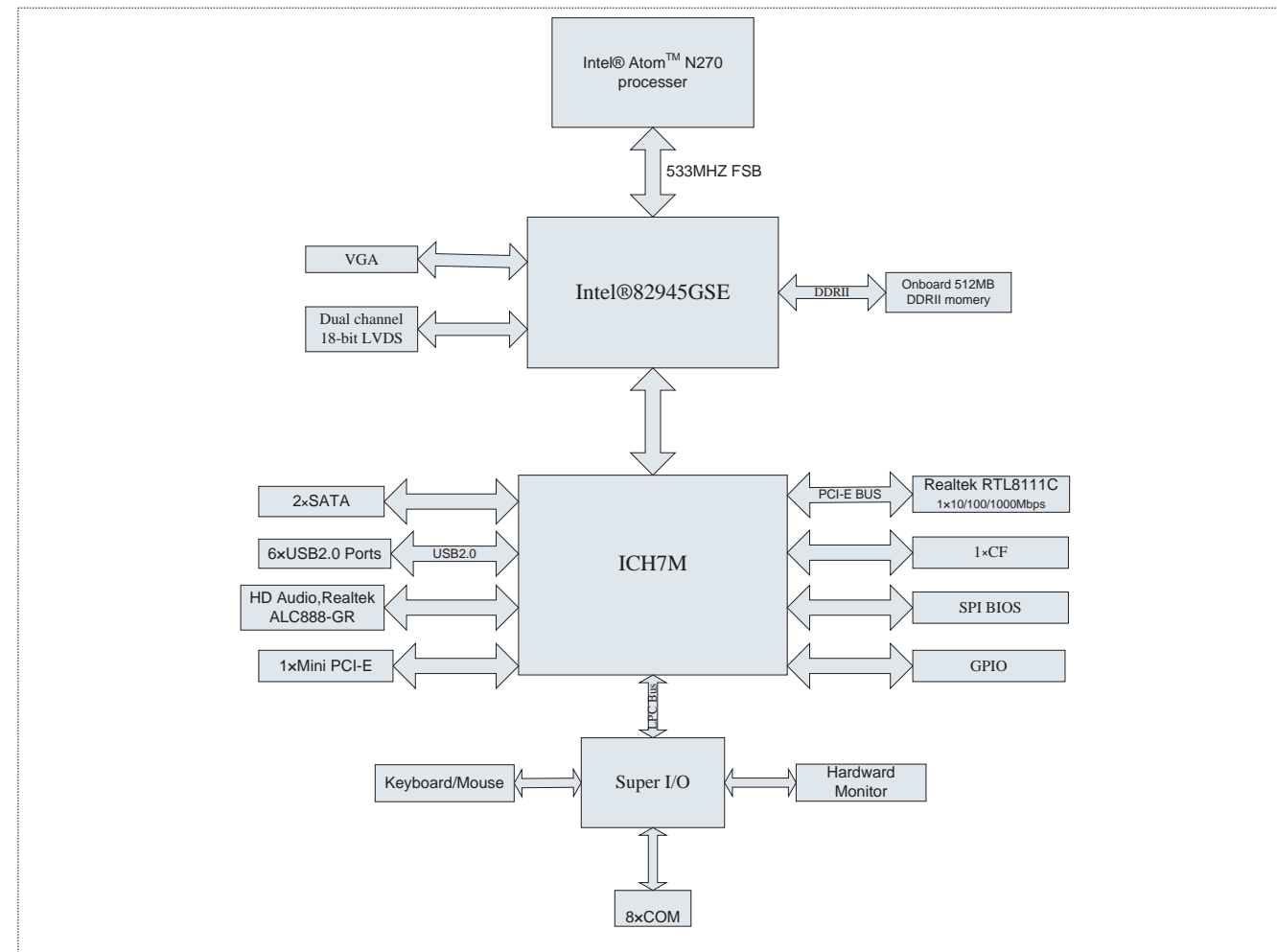
EPIC SBC with N270 CPU and VGA/LVDS/CF/LAN/Audio

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Board Diagram



Features

- EPIC SBC Onboard Intel® Atom™ N270 1.6GHz CPU
- Onboard 512MB DDR2 memory, up to 1GB
- Support 1 x VGA, 2 x 18-bit LVDS
- Support 1 x 10/100/1000Mbps Ethernet interface
- Support 6 x USB2.0, 8 x COM, 2 x SATA, 1 x CF, 1 x 8-bit DIO
- Ultra small size, Fanless design

Specifications

System	
Processor	Onboard Intel® Atom™ N270 1.6GHz processor
Chipset	Intel® 945GSE + ICH7-M
Memory	Onboard 512MB DDR2 memory (could be expanded to 1GB)
Hardware Monitor	Monitors system status, voltage, temperature, etc
Watchdog Timer	1~255 sec./min. timer system reset or interrupt, setup by software
Expansion Interface	1 x Mini PCI-E
Storage	
IDE	N/A
Serial ATA	2 x SATA II
Floppy	N/A
CF	1 x Compact Flash socket
I/O Interface	
USB	6 x USB2.0, available interface of 3 x 9-Pin header on board
Serial Port	4 x RS-232/422/485, 4 x 3-wire TTL interface, available interface of 2x 6-pin and 4 x 9-Pin header on board
Parallel Port	N/A
IrDA	N/A
GPIO	4 x Digital Input, 4 x Digital Output
Audio	Onboard ALC888GR, Support HD Audio, available interface of 10-pin header on board, Mic-in, Line-in and Line-out

Display	
Display Controller	Intel® 945GSE Integrated GMA950 Graphics controller
Memory	Up to 224MB shared memory
Resolution	VGA mode: up to 2048 x 1536@75Hz
Dual Display	VGA +LVDS dual display
Ethernet	
Chipset	1 x RTL8111C
Speed	10/100/1000Mbps
Connector	1 x RJ45
Mechanical and Environmental	
Dimensions(L*W)	165mm x 115mm
Operating Temperature	-20℃~60℃
Storage Temperature	-40℃~80℃
Operating Humidity	5%-95%,non-condensing
Power	
Power Supply	single +5V power supply
Power Consumption	Typical 14W(Intel®Atom™N270 1.6GHz CPU, onboard 1G (or 512M) DDR2 533MHz)
Operating System	
Windows OS	Windows 2000/ Windows XP
Embedded OS	Linux/XP Embedded

Optional Accessories

Part Number	Name	Description	Qty.
2192-010621	Driver CD/protective film/RoHS	EC4-1812CLDNA/Ver: C00	1
2360-012641	VGA cable/RoHS	VGA connector to 2x5 Pin connector(2.0mm pitch),Length:300mm RoHS	1
2360-014781	Dual USB ports with bracket/RoHS	Two USB ports to one 2x5 Pin connector(2.0mm pitch),Length:550mm/RoHS	1
2360-11231	Serial port cable/RoHS	DB9 connector to 2x5 Pin connector(2.0mm pitch),Length:300mm/RoHS	1
2360-17481	Multi-functional converter cable/RoHS	Buzzer reset button dual PS/2 connectors to 2x5 Pin 2.0mm pitch female connector, length: 250mm	1
2360-024341	(YF) LAN cable/RoHS	RJ45 connector to 2x7 Pin (2.0mm pitch), length: 300mm	1
2360-002581	Audio cable with bracket/RoHS	Three audio jacks to one 2x5 Pin connector (2.0mm pitch), length: 300mm/RoHS	1
2360-018011	SATAHDD cable/RoHS	(7p-7p), length: 300mm/RoHS	1
2360-016901	DC power supply cable/RoHS	4 Pin male to two SATA 15 Pin female connectors length: 100mm	1
2360-027621	Power cable/RoHS	TJC6-8P to ATX connector (4.2mm pitch), Length:300mm	1

Ordering Information

Part Number	Model Number	Description
0030-012841	EC4-1812CLDNA	EPIC motherboard with Atom™ N270 CPU/ 1GB /VGA+LVDS/2 x SATA+1 x CF /1 x LAN/6 x USB/8 x COM/1 x LPT /1 x Mini PCI-E port/RoHS
0030-012840	EC4-1812CLDNA	EPIC motherboard with Atom™ N270 CPU/ 512MB /VGA+LVDS/2 x SATA+1 x CF /1 x LAN/6 x USB/8 x COM/1 x LPT /1 x Mini PCI-E port