



i945Gct-SN/i945Gct-DN Sales Kit

Empowered your Applications



Empowered your
Applications

- Jun'08
- Ricky Lee
- MB Product Management Division

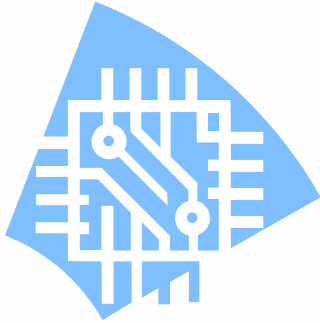
AOpen



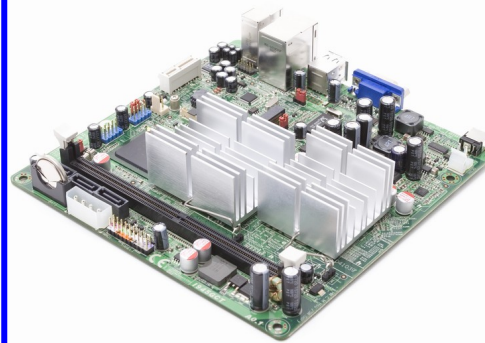
Open Mind & Global Vision

Agenda

i945Gct-SN/DN



Block Diagram



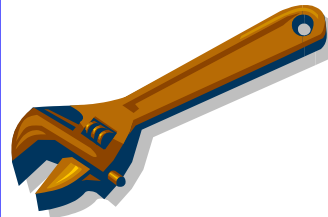
Photo



Key Feature



MB Spec



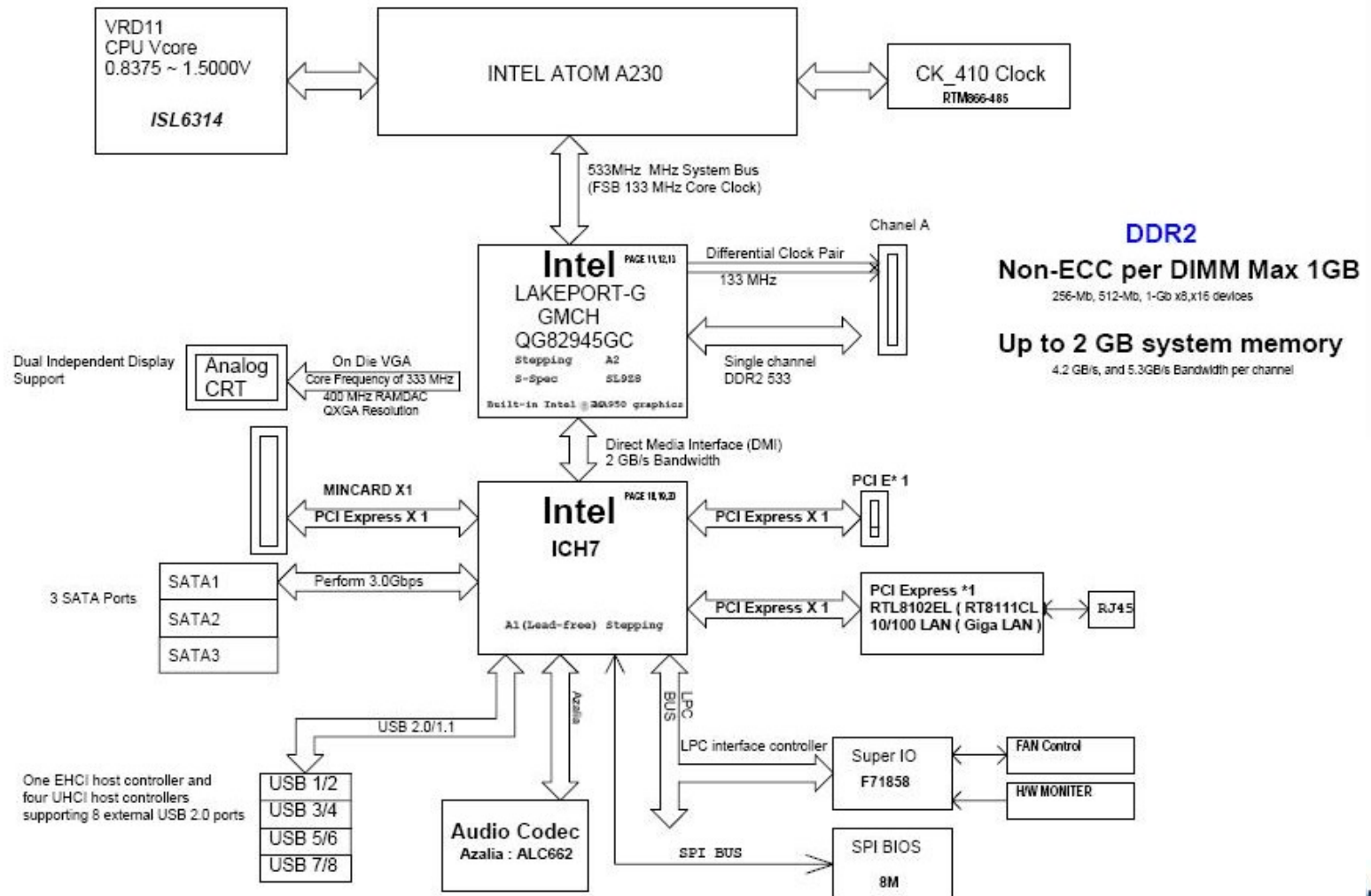
Application



Accessory

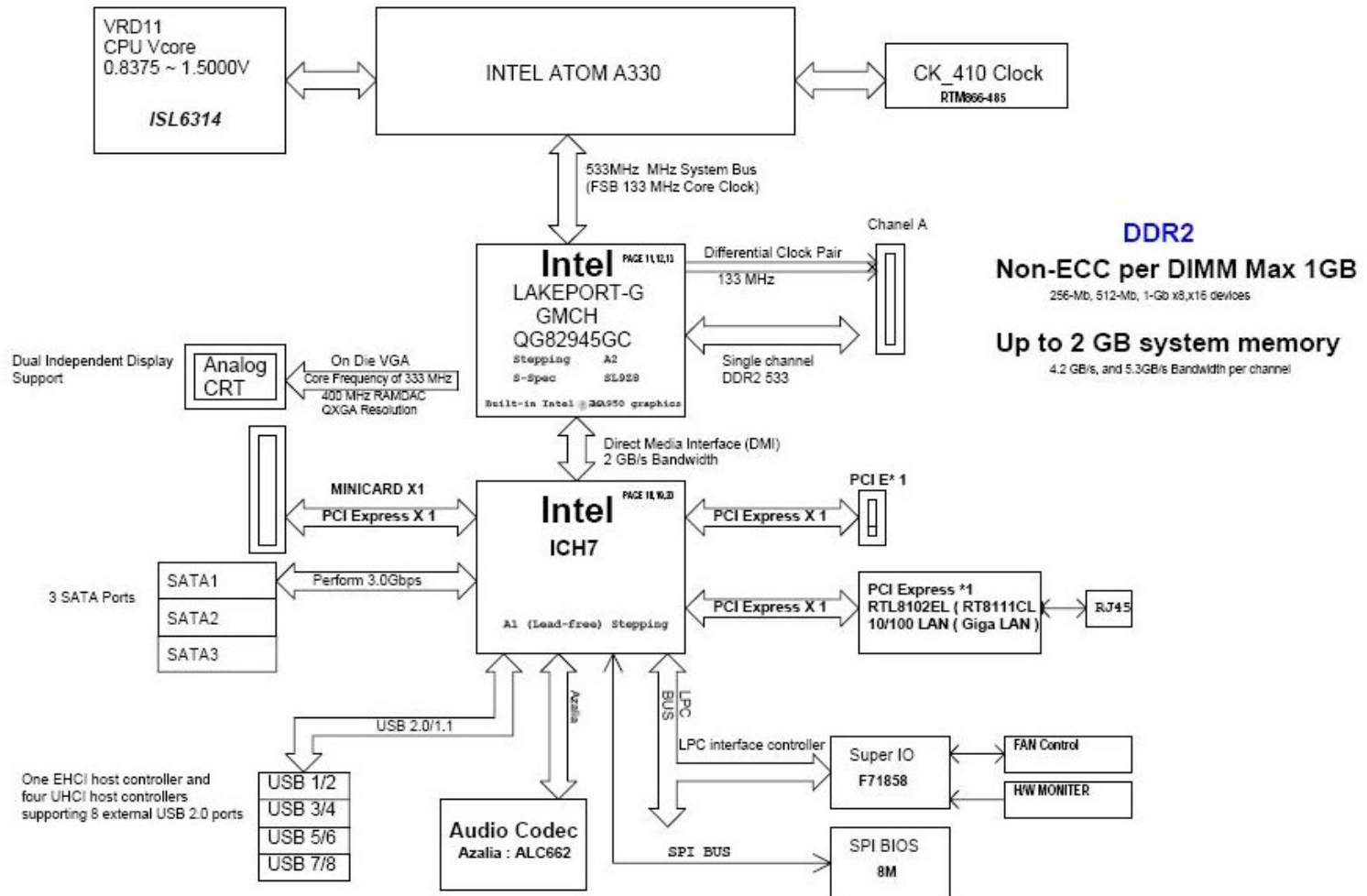
Block Diagram

I945GCT-SN Block Diagram

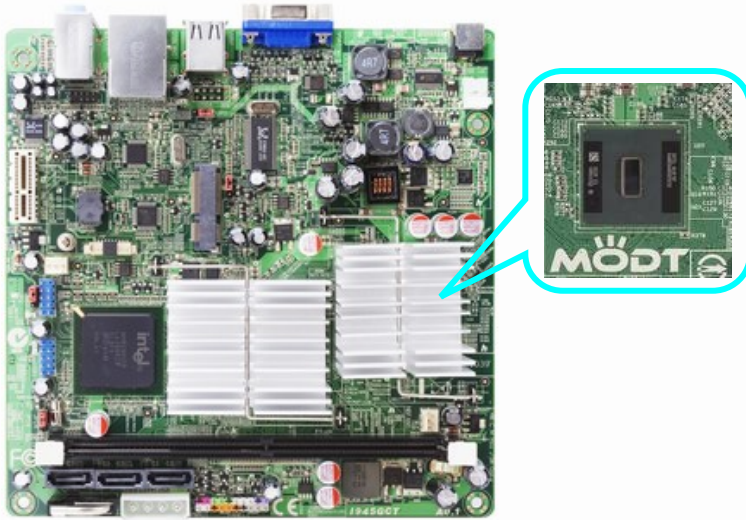


Block Diagram

I945GCT-DN Block Diagram



MB Photo



i945Gct-SN(Singal Core)

CPU : ATOM 230 (1.6G/533MHz)

Chipset : 945GC/ICH7

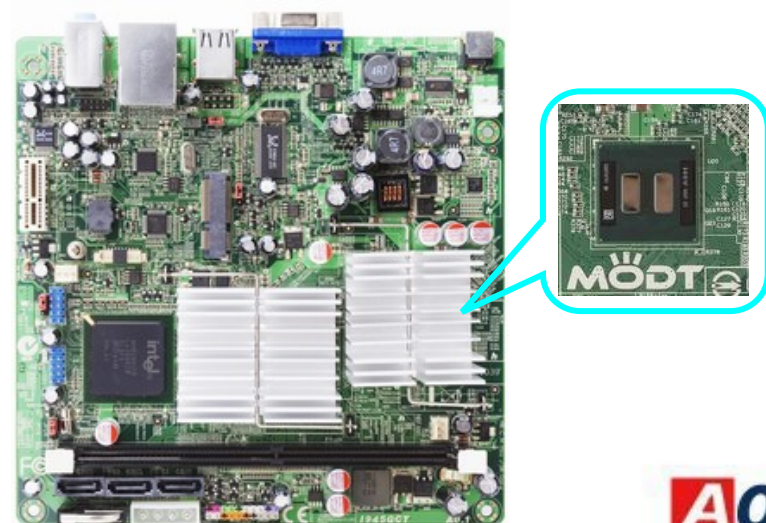
Form Factor : Mini ITX 170mm x 170mm

i945Gct-DN(Dual Core)

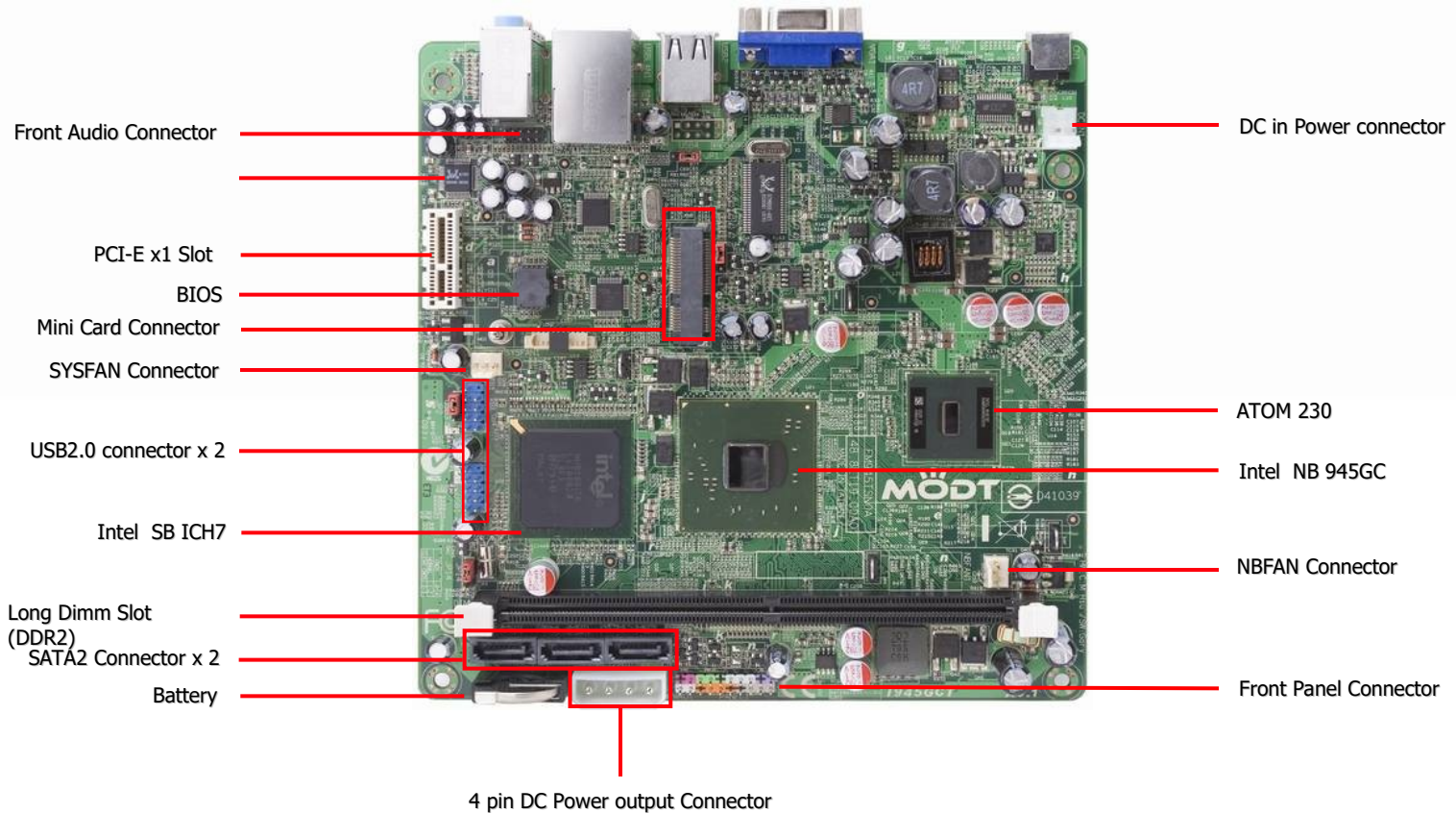
CPU : ATOM 330 (1.6G/533MHz)

Chipset : 945GC/ICH7

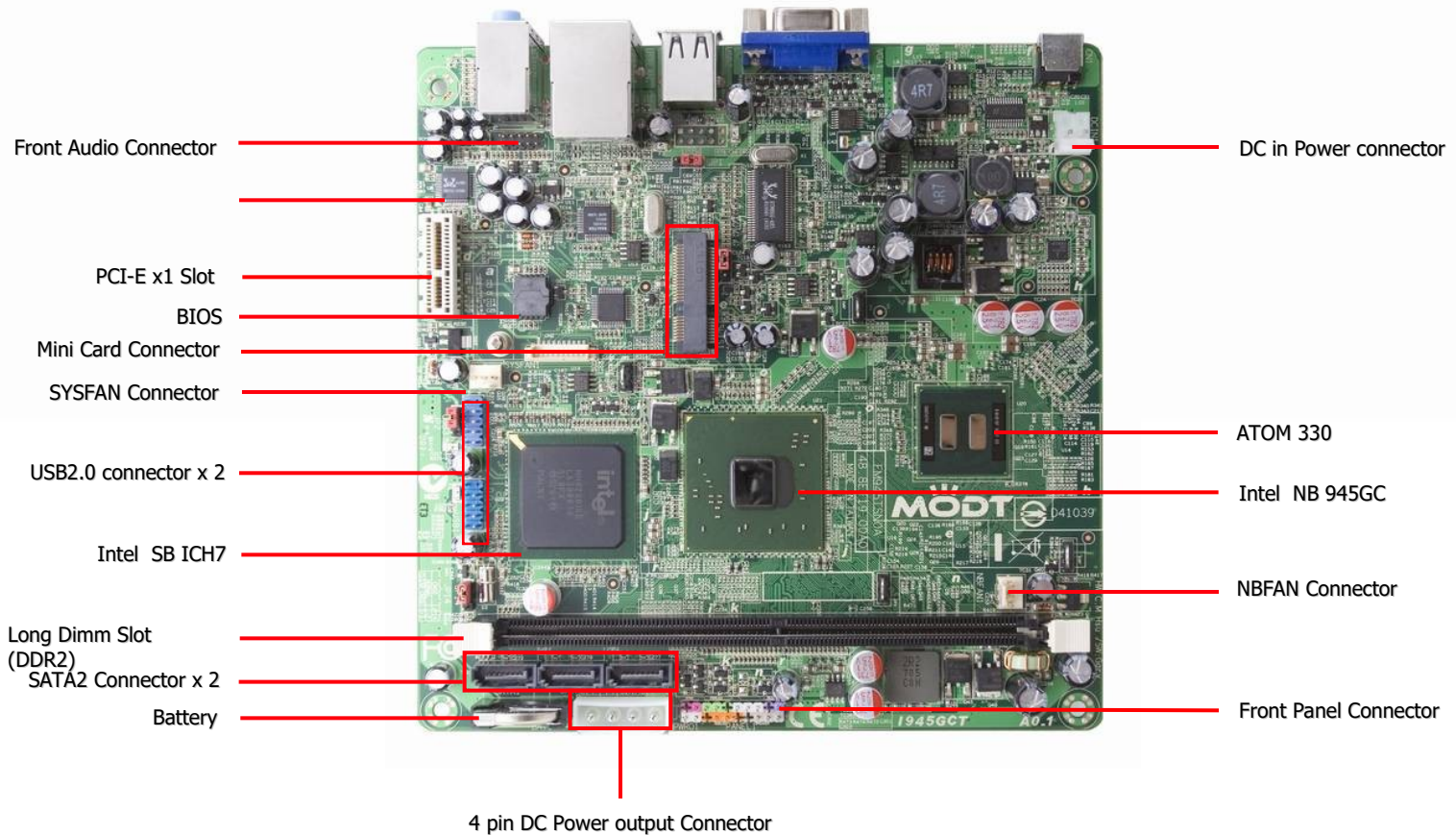
Form Factor : Mini ITX 170mm x 170mm



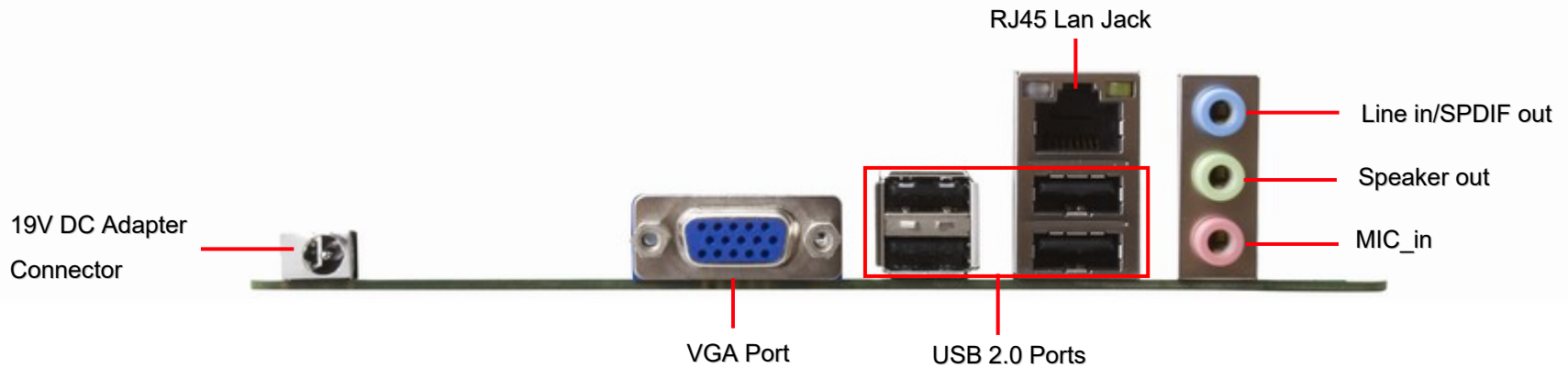
i945Gct-SN



i945Gct-DN



i945Gct-SN/i945Gct-DN Rear I/O



One Page Specification

– i945Gct-SN

CPU

Intel® ATOM 230(Single Core)
FSB 533MHz

CHIPSET

North Bridge: Intel 945GC
South Bridge: Intel ICH7

MEMORY

DIMM 240 x 1
Support DIMM240 DDRII 533
up to 2GB

GRAPHICS

Integrated in Intel 945GC chipset
(Intel® Graphics Media Accelerator (GMA950))

EXPANSION SLOT

1 x Mini Cards
1 x PCIe x1

STORAGE

Embedded Serial ATA and IDE controller in ICH7
3 x Serial ATA

LAN

Realtek 10/100 Lan RTL8102E

AUDIO

Realtek Azalia Codec ALC662 on-Board
Support Intel High Definition 5.1 Channel Audio

SYSTEM BIOS

Award PnP 8Mb SPI Flash ROM BIOS

FORM FACTOR

Mini ITX Size, 170mm*170mm

REAR PANEL I/O

1 x Power DC-in jack(support 19V, 65W adapter or up to 90W)
1 x VGA Port
4 x USB port
1 x RJ45 LAN port
1 x 5.1 Audio port
(for MIC_in,Speaker out,Line_in,SPDIF out)



INTERNAL I/O CONNECTORS & HEADERS

1 x 4-pin 12V Output connector for Hard Disk/Optical Drive
1 x CPU FAN header
1 x System FAN header
1 x Front panel switch
1 x Front audio header
3 x Serial ATA connectors
2 x USB 2.0 header support 4 USB 2.0 Ports



One Page Specification

– i945Gct-DN

CPU

Intel® ATOM 330(Dual Core)
FSB 533MHz

CHIPSET

North Bridge: Intel 945GC
South Bridge: Intel ICH7

MEMORY

DIMM 240 x 1
Support DIMM240 DDRII 533
up to 2GB

GRAPHICS

Integrated in Intel 945GC chipset
(Intel® Graphics Media Accelerator (GMA950))

EXPANSION SLOT

1 x Mini Cards
1 x PCIe x1

STORAGE

Embedded Serial ATA and IDE controller in ICH7
-3 x Serial ATA

LAN

Realtek 10/100 Lan

AUDIO

Realtek Azalia Codec ALC662 on-Board
Support Intel High Definition 5.1 Channel Audio

SYSTEM BIOS

Award PnP 8Mb SPI Flash ROM BIOS

FORM FACTOR

Mini ITX Size, 170mm*170mm

REAR PANEL I/O

1 x Power DC-in jack(support 19V, 65W adapter or up to 90W)
1 x VGA Port
4 x USB port
1 x RJ45 LAN port
1 x 5.1 Audio port
(for MIC_in,Speaker out,Line_in,SPDIF out)



INTERNAL I/O CONNECTORS & HEADERS

1 x 4-pin 12V Output connector for Hard Disk/Optical Drive
1 x CPU FAN header
1 x System FAN header
1 x Front panel switch
1 x Front audio header
3 x Serial ATA connectors
2 x USB 2.0 header support 4 USB 2.0 Ports



i945Gct-DN/SN



	i945Gct-DN	i945Gct-SN
CPU	ATOM 330	ATOM 230
CHIPSET	945GC + ICH7	
MEMORY	DIMM x 1	
FSB	533/ 800/1066 MHz	
VGA	15 PINs D-Sub x 1	
SLOTS	Mini Card x 1, PCIe x 1	
STORAGE	s-ATA 2.0 x 3	s-ATA 2.0 x 2
LAN	10/100 MHz x 1	
AUDIO	Realtek HD Audio 5+1 Channels	
USB 2.0	Onboard x 4, Rear x 4	
Power Out	12/5V Power Connector (4 PINs) x 1	
DC-IN	90W 19V DC-IN	65W 19V DC-IN

i945Gct-DN/SN



AOpen's Atom designs with

1. Slim to fit any Mini ITX Chassis (height < 50 mm)
2. Easy thermal with system fan x 1
(Smart fan speed control with board design)
3. Flexibly expansion with Mini card x 1 & PCIe x 1
4. DC-IN power adaptor
(Silent via Slim to fit chassis)



Key Feature

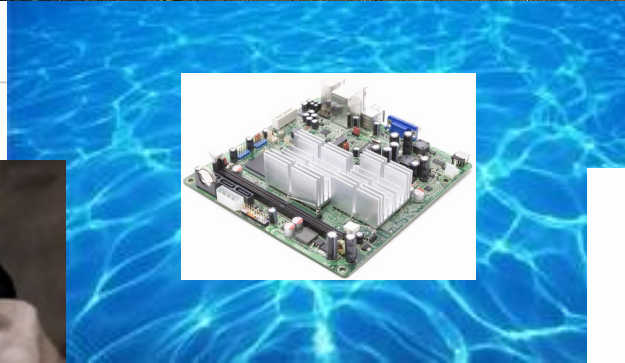
Greening the Product

- Low Power consumption -



- Energy Saving -

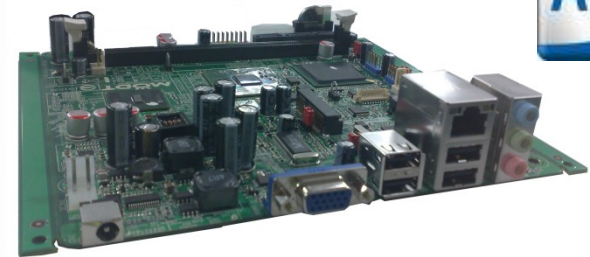
Quiet - Fan Less



Small - Space Saving



Key Feature



Mini Card expansion:

1.H.264 accelerator



2.Wireless 802.11/a/b/g/N



3.3G mobile embedded Module – HSDPA/UMTS



4.PCIe - TV-Tuner

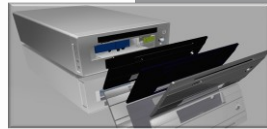


5.SD card reader for SD boot up (Window XP, Vista, XPe, Linux)



Application Targeting

XC Series



S110



S120



S135



S100



LCD PC



Application Targeting



SKU

CPU		ATOM 230 Single Core			ATOM 330 Dual Core		
SKUs(Model name)		I945Gct-SN	I945Gct-SFL	I945Gct-SUN	I945Gct-DN	I945Gct-DFL	I945Gct-DUN
Thermal solution	H-Sink w/Fan(NB)	v		v	v		v
	Fan Less		v			v	
AC Adapter	19V_65W	v	v	v			
	19V_90W				v	v	v
USB port	F4 , B4	v	v		v	v	
	F6 , B2			v			v
Operation temperature	0~35°C	v		v	v		v
	0~50°C		v			v	

Accessories List



90W DC
Power Adapter



Power Cord



IO Bracket



EIG



Driver CD



SATA Power
Cable



SATA Cable

i945Gct-SN/i945Gct-DN estimated schedule

Update:2008/08/08

MB

C0/C1

C2

C3

C4

Ww41

2 weeks

8/8

8/12

8/24

9/15

MB verification start
(EMI/QT/thermal/SE)

Transfer meeting

MB P/R
200pcs

MB MP

RO
Launch

8/20

Ww36

Ww39

Transfer meeting with
RO(AOA,AOE,AOJ)

Launch

ENG MB
ship out
AOE : Pcs
AOP : Pcs
AOJ : Pcs
AOI : Pcs