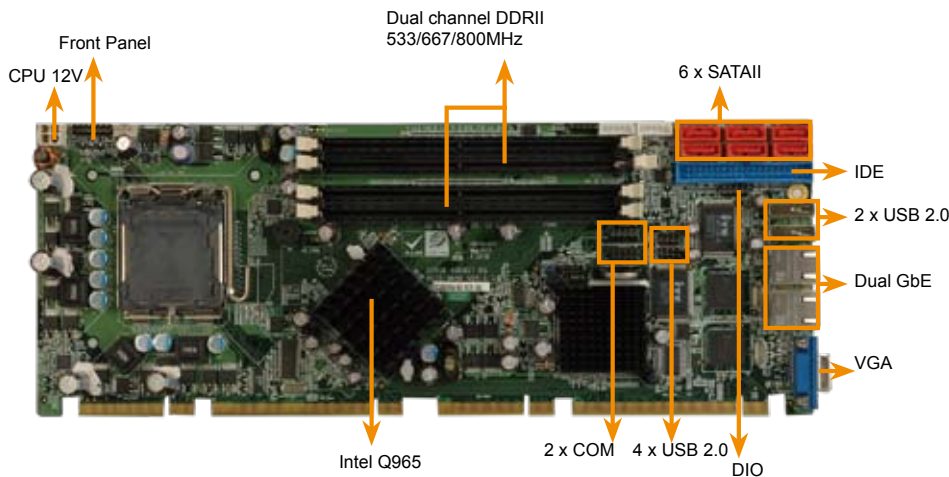


PCIE-9650

PICMG 1.3 LGA775 Intel Core 2 Quad CPU Card With
VGA, Dual PCIe GbE, SATA II and USB 2.0



Intel® Matrix
Storage Manager

Dual DDR II
800 FSB1066



Specifications

- ◆ **CPU**
LGA 775 Intel® Core 2 Quad, Core 2 Duo, Pentium® D/4 , Celeron® D with 533/800/1066MHz FSB
- ◆ **System Chipset**
Intel Q965 + ICH8DO
- ◆ **BIOS**
AMI Flash BIOS
- ◆ **System Memory**
4 x 240-pin dual channel DDRII 533/667/800 MHz up to 8GB
- ◆ **Ethernet**
Dual Intel PC82573L PCIe GbE chipset
- ◆ **I/O Interface**
2 x RS-232
10 x USB 2.0
(4 by Pin header(CPU Board) + 2 by bracket + 4 by Pin header(backplane))
6 x SATA II with Intel RAID 0,1,5 and 10
1 x IDE
1 x KB (by pin header)
1 x MS (by pin header)
- ◆ **Digital I/O**
8-bit digital I/O, 4-bit input/ 4-bit output
- ◆ **IrDA**
1 x IrDA by pin header
- ◆ **Super I/O**
ITE IT8712F
- ◆ **Display Interface**
VGA Integrated in Intel Q965
- ◆ **Audio**
7.1 channel HD Audio Kit with Realtek ALC883 support dual audio streams
- ◆ **SSD**
N/A
- ◆ **Watchdog Timer**
Software programmable supports 1 ~255 sec. System reset
- ◆ **Power Supply**
ATX Power
- ◆ **Power consumption**
5V@5.32A, 12V@3.63A, 3.3V@ 4.8A
(Intel® Core 2 Duo E6600 2.4GHz, 2GB 800MHz DDR2)
- ◆ **Temperature**
operation: 0°C ~ 60°C (32 ~ 140°F)
- ◆ **Humidity**
operation: 5% ~95% non-condensing
- ◆ **Dimensions**
338 mm x 122 mm
- ◆ **Weight**
GW: 1200 g / NW: 474 g

Features

1. PICMG1.3 and RoHS compliant
2. LGA775 Intel® Core 2 Quad processor CPU support up to 1066MHz FSB
3. Dual channel DDRII 533/667/800 MHz support up to 8GB
4. High performance PCIe Gigabit Ethernet
5. 6 x SATA II with Intel Matrix Mstorage Manager support

Packing List

1 x PCIE-9650 Single Board Computer
1 x Mini Jumper Pack
1 x ATA 66/100 flat cable (P/N: 32200-000052-RS)
6 x SATA cable (P/N: 32000-0628000-RS)
3 x SATA Power cable (P/N: 32100-088600-RS)
1 x KB/MS cable with Bracket (P/N: 19800-000066-RS)
1 x Dual RS-232 cable (P/N: 19800-000051-RS)
1 x USB cable (P/N: CB-USB02-RS)
1 x Utility CD

Ordering Information

Part No.	Description
PCIE-9650-R10	PICMG 1.3 LGA775 Intel Core 2 Quad CPU Card With VGA, Dual PCI-E GbE, SATA II and USB 2.0
AC-KIT-883HD-R10	7.1 Channel HD Audio Kit with Realtek ALC883 support dual audio streams
32000-000075-RS	5-Pin wafer to PS/2 connector cable for Keyboard or Mouse
CB-USB14-RS	4 ports USB cable
CF-520-RS	CPU Cooler
CF-775A-RS	CPU Cooler
SDVO-100VGA-R10	PCIe x16 VGA Output SDVO Card supports dual display (IEI CPU board only)
SDVO-100DVI-R10	PCIe x16 DVI Output SDVO Card supports dual display (IEI CPU board only)

1

Single Board Computer

2

VIDEO CARD

3

Xscale Solutions

4

Open HMI

5

VITO Universal Controller

6

DINO BLADE

7

LCD Product Series

8

Embedded System

9

Industrial Computer Chassis

10

Power Supply

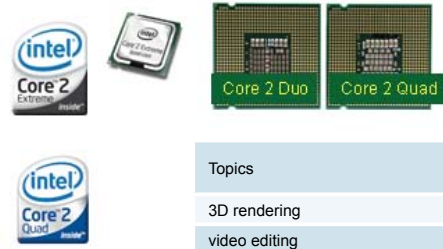
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Peripherals

IEI New Quad Core Platform



IEI Q965 Solution with Intel Q965 chipset for Quad Core processors

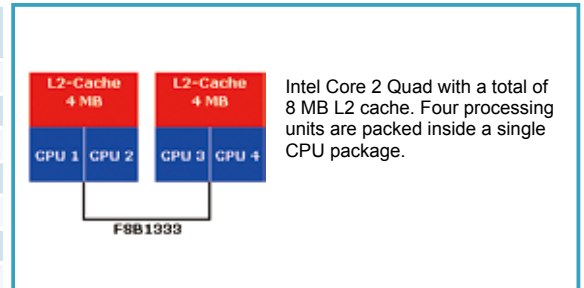


Performance Increasing

Topics	Programs	Core 2 Quad vs. Core 2 Duo
3D rendering	3D Studio Max 8.0	100%
video editing	Adobe Premiere Pro 2.0	80%
HD video encoding	Main Concept H.264	70%
video encoding	Windows Media Encoder 9	63%
video encoding	DivX 6.2	27%
image editing	Adobe Photoshop CS2	24%
file compression	WinRAR 3.6	10%

Chipset Processor Compatibility Matrix

Chipset Compatibility Matrix	Processor Generation	Intel 915G	Intel 945G	Intel Q965
Core 2 Extreme QX6700	Kentsfield			v
Core 2 Quad Q6600	Kentsfield			v
Core 2 Duo E6xxx & E4xxx	Conroe		v	v
Pentium 4 Processor 6x1	Cedar Mill	v	v	v
Pentium 4 Processor 5x1	Prescott	v	v	
Conroe-L Single Core Processor	Conroe		v	v
Celeron D Processor 352	Cedar Mill	v	v	v



Core 2 Duo Support List

Model Name	Form Factor	Pentium IV Cedar Mill (65nm process)	Core 2 Quad	Core 2 Duo Conroe	Core 2 Duo Merom (FSB 667MHz)	Core Duo/Solo Celeron M (FSB 533MHz)
PCIE-9650-R10	PICMG1.3	Y	Y	-	-	-
PCIE-9452-R10	PICMG1.3	-	-	-	Y	Y
PCIE-9450-R20	PICMG1.3	Y	-	Y	-	-
WSB-9454-R10	PICMG1.0	Y	-	Y	-	-
WSB-9452-R10	PICMG1.0	-	-	-	Y	Y
WSB-9154-R20	PICMG1.0	Y	-	-	-	-
PICOe-9452	Half size	-	-	-	Y	Y
IMBA-X9654-R10	ATX	Y	Y	Y	-	-
IMBA-9454-R10	ATX	Y	-	Y	-	-
IMB-9454-R20	microATX	Y	-	Y	-	-
IMB-9452-R10	microATX	-	-	-	Y	Y
POS-6614-R10	LPX	Y	-	-	-	-
KINO-9454-R20	Mini-ITX	Y	-	Y	-	-
KINO-9453-R10	Mini-ITX	-	-	-	Y	Y
KINO-9452-R10	Mini-ITX	-	-	-	Y	Y
KINO-6614-R10	Mini-ITX	Y	-	-	-	-
NANO-9452-R10	EPIC	-	-	-	Y	Y