

**PICMG 1.0 LGA775 Intel® Pentium® D CPU wih VGA / DVI,
Daul PCIE GbE, SATAII and Audio**

WSB-9454

Quick Installation Guide

Version 1.0

Nov. 20, 2006

Package Contents

WSB-9454 package includes the following items:

- 1 x WSB-9454 single board computer
- 1 x mini jumper pack
- 1 x ATA 66/100 flat cable
- 1 x Dual RS232 cable
- 1 x SATA Power cable
- 2 x SATA cable
- 1 x KB/MS Y cable
- 1 x USB cable
- 1 x Utility CD
- 1 x QIG (quick installation guide)



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Specifications

- CPU: LGA 775 Intel® Pentium® D/4/Celeron® D with 533/800/1066 MHz FSB
- System Chipset: Intel® 945G + ICH7
- BIOS: AMI Flash BIOS
- System Memory
 - 4x 240-pin Dual channel DDRII 400/533/667 MHz up to 4GB
- Ethernet: Dual Broadcom BCM5787 PCI express GbE with ASF2.0 remote control support
- I/O
 - I/O Interface
 - 2 x RS232
 - 7 x USB 2.0
 - 1 x IDE
 - 1 x LPT
 - 2 x SATAII-300
 - 1 x IrDA
 - 1 x PS/2 for KB/MS
- Display:
 - VGA integrated in Intel® 945G
 - DVI by silconimage SIL1362(WSB-9454DVI Only)
- Digital I/O: 8 bit digital I/O, 4 input /4 output
- Audio: 5.1 Channel Audio Kit with Realtek ALC655
- WTD: Software programable supports 1-255 sec. System reset
- Power Supply: ATX Power
- Power Consumption: +5V@6.75A, +[12V@7.24A](#)

(Pentium® 4 3.0GHz, DDR2 533MHz 1GB*4)-3D MARK

- Temperature: 0 ~ 60°C(32 ~ 140°F)
- Humidity: 5% ~ 95% non-condensing
- Dimension: (L)338mm x (W)122mm
- Weight: GW: 1.2Kg

PIDE1: IDE Interface Connector			
PIN	DESCRIPTION	PIN	DESCRIPTION
1	RESET#	2	GND
3	DATA 7	4	DATA 8
5	DATA 6	6	DATA 9
7	DATA 5	8	DATA 10
9	DATA 4	10	DATA 11
11	DATA 3	12	DATA 12
13	DATA 2	14	DATA 13
15	DATA 1	16	DATA 14
17	DATA 0	18	DATA 15
19	GND	20	N/C
21	IDE DRQ	22	GND
23	IOW#	24	GND
25	IOR#	26	GND
27	IDE CHRDY	28	BALE – DEFAULT
29	IDE DACK	30	GND
31	INTERRUPT	32	N/C
33	SA1	34	PDIAG#
35	SA0	36	SA2
37	HDC CS0#	38	HDC CS1#
39	HDD ACTIVE#	40	GND

J_AUDIO1: AC'97 Connector			
PIN	DESCRIPTION	PIN	DESCRIPTION
1	SYNC	2	BITCLK
3	SDOUT	4	PCBEEP
5	SDIN	6	RST#
7	VCC	8	GND
9	+12V		

KB1: 5-pin Mini-DIN Keyboard Connector	
PIN	DESCRIPTION
1	Keyboard Clock
2	Keyboard Data
3	N/C
4	GND
5	VCC

DVI1 : DVI Connector			
DVI Connector			
PIN	DESCRIPTION	PIN	DESCRIPTION
1	Data 2-	14	VCC
2	Data 2+	15	GND
3	GND	16	Hot Plug Detect.
4	N/C	17	Data 0-
5	N/C	18	Data 0+
6	DDC Clock	19	GND
7	DDC Data	20	N/C
8	N/C	21	N/C
9	Data 1-	22	GND
10	Data 1+	23	Clock +
11	GND	24	Clock -
12	N/C	25	GND
13	N/C		

Ordering Information

WSB-9454-R10

PICMG1,0 Intel® Pentium®D 1066MHz processor, VGA, Dual PCIE GbE, and SATAII

WSB-9454DVI-R10

PICMG1,0 Intel® Pentium®D 1066MHz processor, VGA/DVI, Dual PCIE GbE, and SATAII

AC-KIT08R-R10

5.1 Channel Audio Kit with Realtek ALC655

CF-520-RS: CPU Clooer

32200-000017-RS: FDD cable

19800-000049-RS: LPT cable

CF-775A-RS: CPU cooler

Jumpers setting and Connectors

J_CMOS1 : Clear CMOS Setup	
J_CMOS1	DESCRIPTION
1-2 (default)*	Keep CMOS Setup (Normal Operation)
Short 2-3	Clear CMOS Setup

USB01, USB23, USB45: Internal USB Connector			
USB01, USB23, USB45			
PIN	DESCRIPTION	PIN	DESCRIPTION
1	VCC	2	GND
3	DATA-	4	DATA+
5	DATA+	6	DATA-
7	GND	8	VCC

IR1: IrDA connector	
PIN	DESCRIPTION
1	VCC
2	NC
3	IR-RX
4	GND
5	IR-TX

CPU_FAN1 : CPU Fan Connector	
PIN	DESCRIPTION
1	Ground
2	+12V
3	Rotation Signal
4	Control

FDD1: FDC Connector			
PIN	DESCRIPTION	PIN	DESCRIPTION
1	GND	2	REDUCE WRITE
3	GND	4	N/C
5	N/C	6	N/C
7	GND	8	INDEX#
9	GND	10	MOTOR ENABLE A#
11	GND	12	DRIVE SELECT B#
13	GND	14	DRIVE SELECT A#
15	GND	16	MOTOR ENABLE B#
17	GND	18	DIRECTION#
19	GND	20	STEP#
21	GND	22	WRITE DATA#
23	GND	24	WRITE GATE#
25	GND	26	TRACK 0#
27	GND	28	WRITE PROTECT#
29	GND	30	READ DATA#
31	GND	32	SIDE 1 SELECT#
33	GND	34	DISK CHANGE#

COM1,COM2 : 10-pin external connector			
Connector	Ports	Address	Interrupt
COM1	COM1	3F8	IRQ4
COM2	COM2	2F8	IRQ3

COM1,COM2 : Internal Serial Port Connector		
PIN	DESCRIPTION	
1	DATA CARRIER DETECT	(DCD)
2	RECEIVE DATA	(RXD)
3	TRANSMIT DATA	(TXD)
4	DATA TERMINAL READY	(DTR)
5	GND	(GND)
6	DATA SET READY	(DSR)
7	REQUEST TO SEND	(RTS)
8	CLEAR TO SEND	(CTS)
9	RING INDICATOR	(RI)
10	GND	(GND)

CPU12V1 : CPU POWER Connector			
ATX-12V1 (CPU)			
PIN	DESCRIPTION	PIN	DESCRIPTION
1	GND	2	GND
3	+12V	4	+12V

DIO1 : Digital Input / Output Connector			
PIN	DESCRIPTION	PIN	DESCRIPTION
1	Ground	2	VCC
3	Output 0	4	Output 1
5	Output 2	6	Output 3
7	Input 0	8	Input 1
9	Input 2	10	Input 3

LPT1 : Parallel Port Connector			
PIN	DESCRIPTION	PIN	DESCRIPTION
1	STROBE#	14	AUTO FORM FEED #
2	DATA0	15	ERROR#
3	DATA1	16	INITIALIZE#
4	DATA2	17	PRINTER SELECT LN#
5	DATA3	18	GND
6	DATA4	19	GND
7	DATA5	20	GND
8	DATA6	21	GND
9	DATA7	22	GND
10	ACKNOWLEDGE#	23	GND
11	BUSY	24	GND
12	PAPER EMPTY	25	GND
13	PRINTER SELECT	26	N/C

F_PANEL1 : External Switches and Indicators panel					
	PIN	DESCRIPTION	PIN	DESCRIPTION	
Power LED	1	VCC	2	VCC	Speaker
	3	N/C	4	N/C	
	5	GROUND	6	N/C	
PWRBTN	7	5VSB	8	Speaker	RESET
	9	PWRBTN+	10	N/C	
HDDLED	11	VCC	12	Reset-	
	13	HDLED-	14	GND	