

PICMG1.0 CPU Card supports Intel® LGA 775 Core™2 Duo CPU in 45nm process at FSB800/1066/1333, Intel® Q35 & ICH9R, VGA, Dual PCIe GbE,6 SATAII,IDE,FDD,LPT, USB2.0

WSB-Q354

Quick Installation Guide

Version 1.0

Jul. 2, 2008

Package Contents

WSB-Q354 package includes the following items:

- 1x WSB-Q354 single board computer
- 1x ATA 66/100 flat cable
- 1x Dual RS-232 cable
- 1x KB/MS Y cable
- 1x USB cable
- 3x SATA power cable
- 6x SATA cable
- 1 x mini jumper pack
- 1 x Utility CD
- 1 x QIG (Quick Installation Guide)



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Specifications

- CPU: LGA775 45nm Intel® Core™2 Quad(Yorkfield),Core™2Duo (Wolfdale), Core™2 Duo, Celeron at FSB800/1066/1333MHz processors
- System Chipset: Intel® Q35+ICH9R
- BIOS: AMI BIOS Label
8Mb SPI EEPROM
- System memory: 4 x 240pin socket dual channel DDRII at 800/667MHz up to 8GB
- Ethernet: Dual Broadcom BCM5787M GbE with ASF2.0
- I/O
I/O Interface:
2 x RS-232
7 x USB2.0(1 on bracket,6 on board by pin header)
6 x SATA II support RAID 0,1,10,5
1 x IDE
1 x FDD
2 x LPT
1 x IrDA
1 x Keyboard and mouse(PS/2)
1 x 5-pin on-board header for KB

Super I/O: ITE IT8718F
Digital I/O: 8-bit Digital I/O, 4-bit input / 4-bit output
- Display: VGA integrated in Intel® Q35
- Audio: 10-pin on-board header support 7.1 channel HD Audio by IEL
AC-KIT883HD
- TPM1.2: 1x 20-pin on-board header for TPM(Trusted Platform Module)
- Watchdog timer: Software programable 1-255 sec. by super I/O
- Power supply: ATX
- Power Consumption:
● 3.3V @0.03A, 5V @8.62A, 5Vsb @0.11A, 12V @0.1A , Vcore @2.29A (Intel® core™ 2 Duo E8400,DDR2 800MHz 2GB x 4)
3D Mark 2001SE
- Temperature: 0 ~ 60°C(32 ~ 140°F)

Ordering Information

WSB-Q354-R10

PICMG1.0 CPU Card support Intel® LGA 775 Core™2 Duo CPU in 45nm process at FSB800/1066/1333MHz, Intel® Q35&ICH9R,VGA, Dual GbE, 6 SATA II with RAID,IDE,FDD,LPT,USB2.0

Optional:

AC-KIT883HD-R10

7.1Channel HD Audio kit with Realtek ALC883 support dual audio streams

CF-775A-RS

High performance CPU cooler (115mmx115mmx67mm , 130W)

CF-520-RS

High performance CPU cooler (115mmx115mmx67mm , 115W)

TPM-IN01-R10

Infineon 20-pin Trusted Platform Module with SW Management Tool

TPM-WI01-R10

Winbond 20-pin Trusted Platform Module with SW Management Tool

19800-000066-RS

KB/MS cable with bracket

Jumpers setting and Connectors

J_CMOS1 : Clear CMOS Setup	
JSPI_SEL1	DESCRIPTION
1-2	Normal(Default)
2-3	Clear CMOS Data

JLAN_PWR1 : WOL enable jumper(Optional)	
	DESCRIPTION
1-3	LAN 2 WOL Enable(Default)
2-4	LAN 1 WOL Enable(Default)
3-5	LAN 2 WOL Disable
4-6	LAN 1 WOL Disable

KB1 : 5-pin Keyboard Connector	
PIN	DESCRIPTION
1	KEYBOARD CLOCK
2	KEYBOARD DATA
3	N/C
4	GROUND
5	VCC

COM1, COM2 : External Serial Port Connector			
PIN	DESCRIPTION	PIN	DESCRIPTION
1	DCD#	2	DSR#
3	RXD	4	RTS#
5	TXD	6	CTS#
7	DTR#	8	RI#
9	GND	10	NC

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

ATXCTL1 : Backplane Power Connector	
PIN	DESCRIPTION
1	Ground
2	PS_ON
3	5V Dual

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

J_AUDIO1 : Audio Source Connector			
PIN	DESCRIPTION	PIN	DESCRIPTION
1	ACZ_SYNC	2	ACZ_BITCLK
3	ACZ_SDOUT	4	ACZ_PCBEAP
5	ACZ_SDIN	6	ACZ_RST#
7	ACZ_VCC(+5V)	8	ACZ_GND
9	ACZ_12V	10	ACZ_GND

TPM1: Trusted Platform Module connector			
PIN	DESCRIPTION	PIN	DESCRIPTION
1	FWHPCLK	2	GND
3	LFRAME#	4	KEY
5	PCIRST#	6	VCC
7	LAD3	8	LAD2
9	VCC3	10	LAD1
11	LAD0	12	GND
13	SMBCLK	14	SMBDATA
15	3VDUAL	16	SERIRQ
17	GND	18	CLKRUN#
19	LPCPD#	20	LDRQ#

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

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

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

CPU12V1: ATX-12V1 (CPU)			
PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
1	GND	2	GND
3	+12V	4	+12V

Board Layout: Jumper and Connector Locations

