

micro-ATX MB, Intel® Pentium® 4/Pentium® D/Celeron® D
FSB533/800/1066 MHz CPU, VGA, Dual PCI e GbE,
SATAII ,USB 2.0 , 6 COM and Audio

IMB-9454

Quick Installation Guide

Version 4.0

Nov. 25, 2010

Package Contents

IMB-9454 package includes the following items:

- 1 x IMB-9454 single board computer
- 2 x Dual RS-232 Cable
- 1 x IDE Cable
- 1 x SATA Power Cable
- 2 x SATA Cable
- 1 x I/O Shielding
- 1 x Mini Jumper Pack
- 1 x Utility CD
- 1 x QIG (Quick Installation Guide)



©2006 Copyright by IEI Technology corp.
All rights reserved.

Specifications

- CPU: LGA 775 Intel® Pentium® 4/ Pentium® D/ Celeron® D/Core® 2 Duo processor, FSB 533/800/1066MHz
- System Chipset: Intel® 945G + ICH7
- BIOS : AMI BIOS Label
- System memory: Support dual channel DDRII 400/533/667MHz, maximum memory supported 4GB (4 x DDRII DIMM socket support up to 4GB)
- Ethernet: Dual Realtek RTL8111E GbE controller with ASF 2.0
- I/O Interface
 - 8 x USB 2.0
 - 4 x SATAII
 - 1 x LPT
 - 1 x FDD
 - 5 x RS-232
 - 1 x RS-232/422/485
 - 2 x PS/2 for KB/ MS
 - 1 x IDE
 - 1 x 20-pin LPC header for TPM
- Expansions
 - 1 x PCIe x16
 - 1 x PCIe x1
 - 2 x PCI
- Digital I/O: 8-bits digital I/O,4-bits input/4-bits output
- Super I/O: ITE8712F
- Display: VGA integrated in Intel® 945G
- Audio: Realtek ALC655 with AC'97 Codec
- Watchdog Timer: Software programmable supports 1~255 sec. system reset
- Power Supply: ATX support
- Power Consumption:
 - 5V@2.03A,12V@0.39A,3.3V@6.13A,5Vsb@0.02A, Vcore@2.37A (Intel® Core 2 Duo E7500 2.93 GHZ,DDRII 800 MHz 1GB*4)
- Temperature: 0 ~ 60°C(32 ~ 140°F)
- Humidity: Operation: 5% ~ 95%,non-condensing
- Dimension: 244 (L) mm x 244 (W) mm

Ordering Information

IMB-9454G-R40

Micro-ATX MB Intel® Core 2 Duo LGA775 FSB 1066MHz with VGA, Dual PCIe GbE, SATA II, 6 COM and Audio

32200-000017-RS: FDD Cable

CB-USB02-RS: Dual USB Cable

CB-USB14-RS: Four USB Cable

19800-000082-RS: RS-232/422/485 cable

CF-520-RS-R11: CPU Cooler

CF-775A-RS: CPU Cooler

TPM-WI01-R10: 20-pin WINBOND TPM Module, S/W Management Tool

TPM-IN01-R11: 20-pin INFINEON TPM Module, S/W Management Tool

SDVO-100VGA-R10: PCIe x 16 VGA Output SDVO Card supports dual display (IEI CPU board only)

SDVO-100DVI-R10: PCIe x 16 DVI Output SDVO Card supports dual display (IEI CPU board only)

Jumpers setting and Connectors

JP1: Clear CMOS Setup	
PIN	DESCRIPTION
1-2	Normal Operation
2-3	Clear CMOS Setup

JP4 : COM2 Mode Selection	
PIN	DESCRIPTION
1-3	RS-232
3-5	RS-422/RS-485

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

CN1: RS422/485 Connector	
PIN	DESCRIPTION
1	TXD1+
2	TXD1-
3	RXD1+
4	RXD1-

CN2: Multi Panel			
PIN	DESCRIPTION	PIN	DESCRIPTION
1	ACPILED+	2	SPEAKER+
3	N/C	4	N/C
5	ACPILED-	6	N/C
7	ATX POWER BUTTON	8	SPEAKER-
9	GND	10	N/C
11	IDE LED+	12	RESET SW
13	IDE LED -	14	GND

USB3,USB4: 8-PIN Header USB Connectors			
Pin	DESCRIPTION	Pin	DESCRIPTION
1	VCC	2	GND
3	USBD0-	4	USBD1+
5	USBD0+	5	USBD1-
7	GND	6	VCC

IR1: IrDA Connector	
PIN	DESCRIPTION
1	+5V
2	NC
3	IR-RX
4	GND
5	IR-TX

FAN1: CPU Fan Connector	
PIN	DESCRIPTION
1	GND
2	+12V
3	Linear control
4	Fan Sensor

FAN2,3 : System Fan Connector	
PIN	DESCRIPTION
1	GND
2	Linear control
3	Fan Sensor

CD_IN1: Audio CD IN (2.54mm)	
PIN	DESCRIPTION
1	CD IN_L
2	GND
3	GND
4	CD IN_R

AUX1: Audio AUX IN (2.54mm)	
PIN	DESCRIPTION
1	AUX IN_L
2	GND
3	GND
4	AUX IN_R

CN5: SPDIF Connector (2.54mm)	
PIN	DESCRIPTION
1	VCC AUDIO
2	NC
3	SPDIF OUT
4	GND AUDIO
5	SPDIF IN

CN3: Front Panel Audio connector			
PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
1	MIC IN	2	GROUND
3	MIC BIAS	4	5V
5	LINE OUT(R)	6	LINE OUT (R)Return
7	NC	8	X
9	LINE OUT(L)	10	LINE OUT (L)Return

CN4: Audio Connector (2.54mm)			
PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
1	SUROUT_L	2	CENOUT
3	GND AUDIO	4	GND AUDIO
5	SUROUT_R	6	LFEOUT
7	GND AUDIO	8	NC

DIO1: Digital Input / Output			
PIN	DESCRIPTION	PIN	DESCRIPTION
1	GND	2	+5V
3	Output 3	4	Output 2
5	Output 1	6	Output 0
7	Input 3	8	Input 2
9	Input 1	10	Input 0
11	NC	12	NC

TPM1 : TPM Connector			
PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
1	TPM_CLOCK	2	GND
3	LPC_FRAME#	4	NC
5	RESET#	6	+5V
7	LAD3	8	LAD2
9	+3V	10	LAD1
11	LAD0	12	GND
13	SMB_CLOCK	14	SMB_DATA
15	+3.3SBY	16	SER_IRQ
17	GND	18	CLKRUN#
19	LPC_PD#	20	LDRQ#

Board Layout: Jumper and Connector Locations

