EAX-Q67

Intel® Q67 with Core™ i7/ i5 /i3 ATX Motherboard

Quick Installation Guide

2nd Ed – 10 August 2012

FCC Statement

THIS DEVICE COMPLIES WITH PART 15 FCC RULES. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS:

(1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE.

(2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRED OPERATION.

THIS EQUIPMENT HAS BEEN TESTED AND FOUND TO COMPLY WITH THE LIMITS FOR A CLASS "A" DIGITAL DEVICE, PURSUANT TO PART 15 OF THE FCC RULES.

THESE LIMITS ARE DESIGNED TO PROVIDE REASONABLE PROTECTION AGAINST HARMFUL INTERFERENCE WHEN THE EQUIPMENT IS OPERATED IN A COMMERCIAL ENVIRONMENT. THIS EQUIPMENT GENERATES, USES, AND CAN RADIATE RADIO FREQUENCY ENERGY AND, IF NOT INSTALLED AND USED IN ACCORDANCE WITH THE INSTRUCTION MANUAL, MAY CAUSE HARMFUL INTERFERENCE TO RADIO COMMUNICATIONS.

OPERATION OF THIS EQUIPMENT IN A RESIDENTIAL AREA IS LIKELY TO CAUSE HARMFUL INTERFERENCE IN WHICH CASE THE USER WILL BE REQUIRED TO CORRECT THE INTERFERENCE AT HIS OWN EXPENSE.

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A Message to the Customer

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To receive the latest version of the user's manual; please visit our Web site at:
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Content

1. Getting Started

1.1 Safety Precautions

Warning!

Always completely disconnect the power cord from your chassis whenever you work with the hardware. Do not make connections while the power is on. Sensitive electronic components can be damaged by sudden power surges. Only experienced electronics personnel should open the PC chassis.

Caution!

Always ground yourself to remove any static charge before touching the CPU card. Modern electronic devices are very sensitive to static electric charges. As a safety precaution, use a grounding wrist strap at all times. Place all electronic components in a static-dissipative surface or static-shielded bag when they are not in the chassis.

1.2 Packing List

Before you begin installing your single board, please make sure that the following parts have been shipped.

- 1 x EAX-Q67 ATX Main board
- 1 x DVD contains OS drivers
- 2 x COM cable
- 2 x SATA cable
- 1 x I/O Shield

If any of the above items is damaged or missing, contact your retailer.
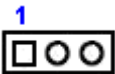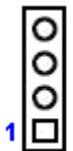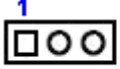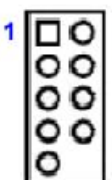
2. Hardware Configuration

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2.1 Product Overview
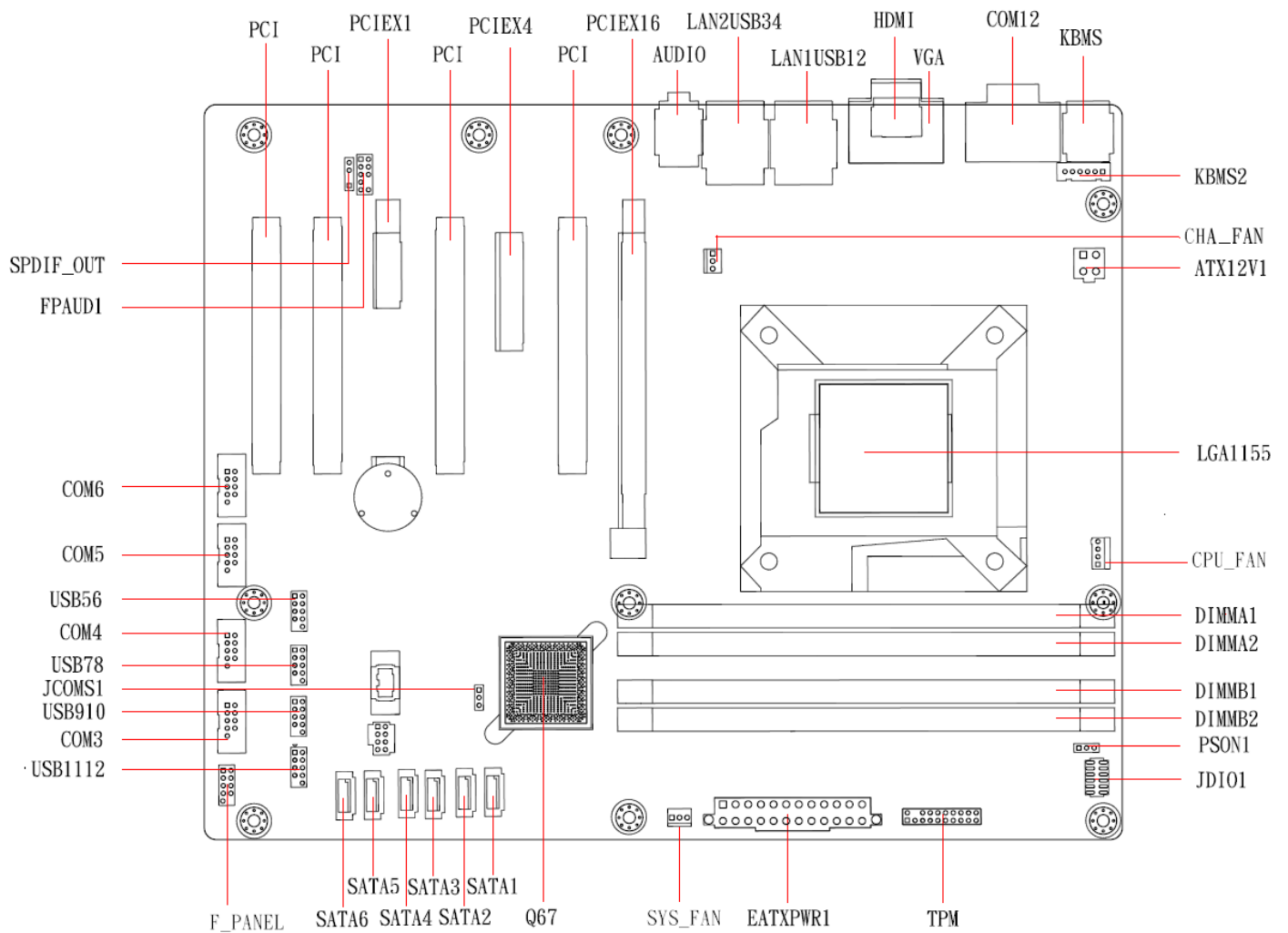
2.2 Product specifications
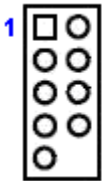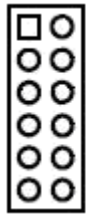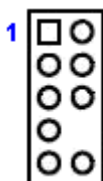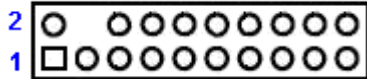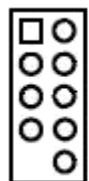
Specifications

System	
CPU	Intel LGA1155 socket supports Intel Core i7/ i5/ i3 CPU
BIOS	AMI 64Mbit SPI
System Chipset	Intel® Q67
I/O Chipset	Nuvoton NCT6776F
Memory	Four 240-pin UDIMM sockets support up to 16GB dual channel DDR3 1066/ 1333 SDRAM
Watchdog Timer	Reset: 1 to 255 sec/min per step
H/W Status Monitor	Monitoring temperature, voltage and cooling fan status. Auto throttling control when CPU overheats.
Expansion Slots	1 PCI-E x 16, 1 PCI-E x 4, 1 PCI-E x 1, 4 PCI
Power State	S1, S3, S4, S5
TPM	TPM1.2 (Optional)
RAID	RAID 0,1,5 and 10
Wake up on LAN or Ring	LAN (WOL) and Ring (WOR)
Smart Fan Control	Yes
Smart Fan Control	Supports 3 modes (Silent/Optimal/Performance)

Display	
Chipset	Intel® GMA HD 2000/ 3000 supports DirectX 10.1, OpenGL 3.0
Display Memory	Shared Memory, up to 1GB
Dual Display	VGA + HDMI
VGA	Onboard, supports max resolution 2048 x 1536 (@60Hz)
HDMI	Onboard HDMI 1.3, supports max resolution 1920 x 1080 (@60Hz)

Audio	
Audio Codec	Realtek ALC892, 5.1 Channel HD Audio
Audio Interface	Line-in, Line-out, Mic-in, S/PDIF, Front Audio Header

Ethernet	
LAN1	Intel 82579LM
LAN2	Intel 82583V

2.3 Jumper and Connector List

Jumpers

Label	Function	Note		
JCMOS1	Clear CMOS		**Normal ***	**Clear CMOS**
PSON1	Select AT/ATX model		**AT MODE**	**ATX MODE**

Connectors

Label	Function	Note
CPU_FAN	CPU Fan Connector	4. FAN_PWM1_C 3. FANCPUDEC1 2. +12V_FANCPU1 1. GND
SYS_FAN	System Fan Connector	1. GND 2. +12V_FANSYS3 3. FANSYSDEC3
CHA_FAN	Chasis Fan Connector	1. GND 2. +12V_FANSYS2 3. FANSYSDEC2

Connectors

Label	Function	Note	
COM3 COM4 COM5 COM6	Serial Port Connector	1.DCD 3.TX 5.GND 7.RTC 9.RING	2.RX 4.DTR 6.DSR 8.CTS

F_PANEL	Front Panel connector	1. HDD_LED+ 2. +V5_DUAL 3. SATA LED# 4. SUPLED 5. GND 6. PANSWIN# 7. SRST# 8. GND 9. NC
JDIO1	Digital I/O Connector	1. SIO_GPIO0 2. SIO_GPIO4 3. SIO_GPIO1 4. SIO_GPIO5 5. SIO_GPIO2 6. SIO_GPIO6 7. SIO_GPIO3 8. SIO_GPIO7 9. SMB_CLK_MAIN 10. SMB_DATA_MAIN 11. GND 12. +5V_DUAL
KBMS2	PS2 Keyboard & mouse connector	1. KB_A_CLK# 2. KB_A_DAT# 3. MS_A_DAT# 4. GND 5. KBMS1_VCC 6. MS_A_CLK#
FPAUD1	Audio Mic.-In & Line-Out Connector	1. MIC2_L 2. GND 3. MIC2_R 4. PCH_GPIO 5. LINE2_R 6. MIC2-JD 7. FRONT-IO-SENSE 8. NC 9. LIN2_L 10. LINE2-JD
SPDIF_OUT	SPDIF OUT	4. GND 3. SPDIF-OUT 1. +5V
TPM	TPM Connector	1.CLK33M_LPC 2.GND 3.LPC_FRAME# 4.NC 5.PLTRST_SIO# 6.NC 7.LPC_AD3 8.LPC_AD2 9.+V3.3 10.LPC_AD1 11.LPC_AD0 12.GND 13.NC 14.NC 15.+V3.3_DUAL 16.PCI_SERIRQ 17.GND 18.GND 19.LPCPD# 20.NC
USB56 USB78 USB910 USB1112	USB 2.0 Connector	1.USB+5V 2.USB+5V 3.USB- 4.USB- 5.USB+ 6.USB+ 7.GND 8.GND 9.NC