



C7B250-CB-MK

ENGLISH

繁體中文

简体中文

日本語

한국어

QUICK REFERENCE GUIDE

Revision 1.0

Standardized Warning Statements

Motherboards

About Standardized Warning Statements

The following statements are industry standard warnings, provided to warn the user of situations which can potentially cause a bodily injury. Should you have questions or experience difficulty, contact Supermicro's Technical Support Department for assistance. Only certified technicians should attempt to install or configure components.

Read this section in its entirety before installing or configuring components in the Supermicro chassis.

Battery Handling



Warning!

There is a danger of explosion if the battery is replaced incorrectly. Replace the battery only with the same or an equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions.

警告

電池更換不當會有爆炸危險。請使用製造商建議之相同或功能相當的電池更換原有電池。請按照製造商的說明指示處理廢棄舊電池。

警告

电池更换不当会有爆炸危险。请只使用同类电池或制造商推荐的功能相当的电池更换原有电池。请按制造商的说明处理废旧电池。

電池の取り扱い

電池交換が正しく行われなかった場合、破裂の危険性があります。交換する電池はメーカーが推奨する型、または同等のものを使用下さい。使用済電池は製造元の指示に従って処分して下さい。

경고!

배터리가 올바르게 교체되지 않으면 폭발의 위험이 있습니다. 기존 배터리와 동일하거나 제조사에서 권장하는 동등한 종류의 배터리로만 교체해야 합니다. 제조사의 안내에 따라 사용된 배터리를 처리하여 주십시오.

هناك خطر من انفجار في حالة استبدال البطارية بطريقة غير صحيحة فعليك
استبدال البطارية
فقط بنفس النوع أو ما يعادلها كما أوصت به الشركة المصنعة
تخلص من البطاريات المستعملة وفقا لتعليمات الشركة الصانعة

AMI BIOS POST Codes

About AMI BIOS POST Codes

The table below lists some of AMI BIOS POST codes for C7B250-CB-MK. For more information, refer to https://www.supermicro.com.tw/manuals/other/AMI_BIOS_POST_Codes_for_Grantley_Motherboards.pdf.

Code	Description
0x32	CPU post-memory initialization is started
0x55	No Memory detected or memory failed
0x63	CPU DXE initialization is started
0x69	North Bridge DXE initialization is started
0x70	South Bridge DXE initialization is started
0x92	PCI Bus initialization is started
0x99	Super IO Initialization
0x9A	USB initialization is started
0xA0	IDE initialization is started
0xA9	Boot into BIOS setup menu
0xAE	Legacy Boot event
0xB2	Legacy Option ROM Initialization
0xB4	USB hot plug
0xD6	No VGA device
0xD7	No Keyboard plug in
0xF2	Recovery process started
0xF9	Recovery capsule is not found

 = mounting hole

PACKAGE CONTENTS

- One (1) Supermicro Motherboard
- Two (2) SATA Cables, One (1) I/O Shield
- One (1) Quick Reference, One (1) Driver CD

Jumpers and Connectors

Jumpers		
Jumper	Description	Default
JCMOS	Clear CMOS	1-2: Normal
JBR1	BIOS Recovery	1-2: Normal
JBT1	Clear CMOS (on board)	Short pads to clear CMOS
JI2C1/JI2C2	SMB to PCI-E Slots	Open: Disable
JPME2	Intel® Manufacturing Mode	1-2: Normal
JPUSB1	USB Wake Up Enable (Back Panel USB 0/1)	1-2: Enable
JWD1	Watch Dog Function Enable	1-2: RST

Connectors	
Connector	Description
AUDIO FP	Front Panel Audio Header
BT1	Onboard Battery
COM1	COM1 Port Header
CPU_FAN1	CPU Fan Headers
I-SATA0~5	(Intel® PCH) Serial ATA (SATA) 3.0 Ports 0~5 (6Gb/sec)
JD1	Pin 1~4: External Speaker
JF1	Front Panel Control Header
JL1	Chassis Intrusion Header
JPW1	24-pin ATX Power Connector (Required)
JPW2	8-pin CPU Power Connector (Required)
JSD1	SATA DOM (Disk On Module) Power Connector
JSPDIF_OUT	Sony/Philips Digital Interface (S/PDIF) Out Header
JSTBY1	Standby Power Header
JTPM1	Trusted Platform Module (TPM) Header
PCI-E M.2 CONNECTOR 1	PCI-E M.2 Connector 1, small form factor devices and other portable devices for High speed NVMe SSDs
SYS_FAN1/FAN2	System Fan Headers
USB 2/3	Front Panel Accessible USB 2.0 Headers
USB 8/9 (3.0)	Front Panel Accessible USB 3.0 Header

CONTACT INFORMATION

- www.supermicro.com (Email: support@supermicro.com)
- Manuals: <http://www.supermicro.com/support/manuals>
- Drivers & Utilities: <ftp://ftp.supermicro.com>
- Safety: http://www.supermicro.com/about/policies/safety_information.cfm

LED Indicators

LED indicators			
LED	Description	Color/State	Status
LED1	Power On S3 (Suspend to RAM) LED	Power On: Green On S3: Green Blinking	See manual

CPU & Memory Support

The C7B250-CB-MK supports a 6th and 7th generation Intel® Core™ i7/i5/i3/Pentium®/Celeron® processor, up to 32GB of Unbuffered (UDIMM) non-ECC DDR4 memory, up to 2400MHz in two 288-pin memory slots. Populating these DIMM slots with a pair of memory modules of the same type and same size will result in interleaved memory, which will improve memory performance.

-  **Note:** 1) For memory optimization, use only DIMM modules that have been validated by Supermicro. For the latest memory updates, please refer to our website at <http://www.supermicro.com/products/motherboard>.
- 2) Always connect the power cord last, and always remove it before adding, removing or changing any hardware components.

DIMM Memory Installation



Towards the CPU

DIMMA2 (Red Slot) 

DIMMB2 (Red Slot) 

Memory Population Guidelines

When installing memory modules, the DIMM slots should be populated in the following order: DIMMA2, DIMMB2.

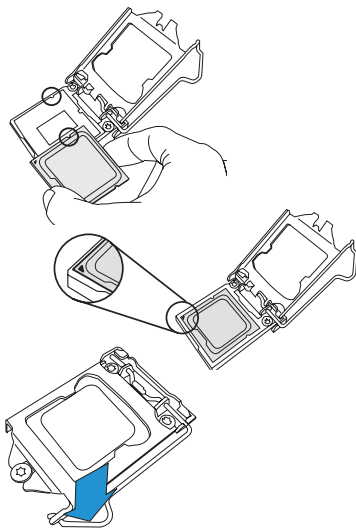
- Always use DDR4 DIMM modules of the same size, type and speed.
- Mixed DIMM speeds can be installed. However, all DIMMs will run at the speed of the slowest DIMM.

Recommended Population (Balanced)		
DIMMB2	DIMMA2	Total System Memory
4GB	4GB	8GB
8GB	8GB	16GB
16GB	16GB	32GB

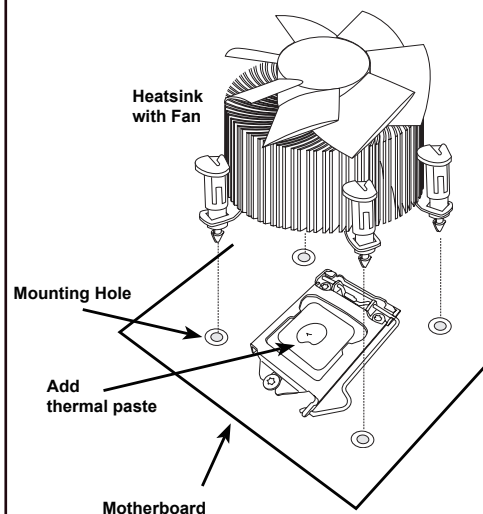
NOTES

- Graphics shown in this quick reference guide are for illustration only. Your components may or may not look exactly the same as drawings shown in this guide.
- Refer to Chapter 2 of the User Manual for detailed information on jumpers, connectors, LED indicators, memory support and CPU/motherboard installation instructions.

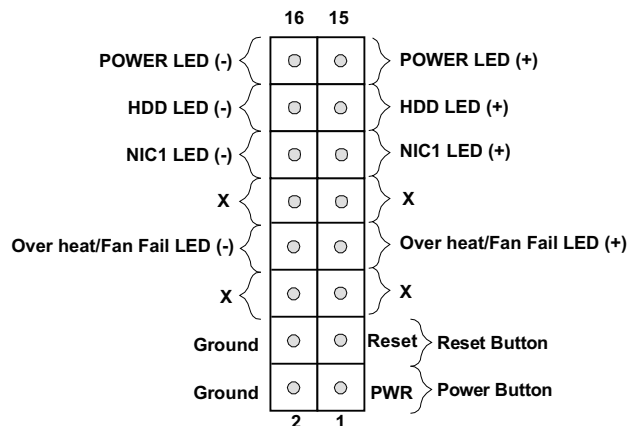
CPU Installation



Heatsink Installation

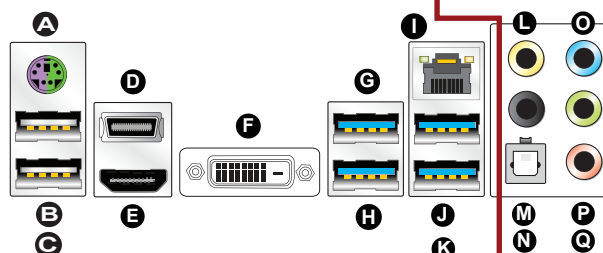


Front Panel Control (JF1)



Back Panel I/O Connectors

A. PS/2 Keyboard/Mouse Port	G. USB 3.0 Port 4	L. Center/LFE Out
B. USB 2.0 Port 0	H. USB 3.0 Port 5	M. Surround Out
C. USB 2.0 Port 1	I. RJ-45 Gigabit Ethernet Port	N. SPDIF Out
D. DisplayPort	J. USB 3.0 Port 6	O. Line In
E. HDMI Port	K. USB 3.0 Port 7	P. Line Out
F. DVI-D Port		Q. Mic In



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單一主機板包裝盒內容清單

- SUPERMICRO C7B250-CB-MK 主機板 x1
- SATA 訊號線 x2
- 後檔板 x1

- 快速參考指南 x1
- 驅動程式光碟片 x1

跳線器/連接埠

跳線器 (Jumper)		
跳線器	說明	預設值
JCMOS	CMOS (可讀寫隨機存取記憶體晶片) 組態資料清除	針腳 1-2 (正常)
JBR1	BIOS 復原	針腳 1-2 (正常)
JBT1	CMOS 組態資料清除 (內建)	設為短路來清除 CMOS 資料
JI2C1/JI2C2	PCI-E (系統匯流排) 介面的 SMB 插座	未連接 (不啟用)
JPME2	Intel® 製造模式	針腳 1-2 (正常)
JPUSB1	啟用 USB 喚醒 (背板 USB 0/1)	針腳 1-2 (啟用)
JWD1	啟動系統監控 (Watch Dog) 功能	針腳 1-2 (重設)

連接埠 (Connector)	
連接埠	說明
AUDIO_FP	前面板音效接頭
BT1	內建電池
COM1	COM1 序列連接埠
CPU_FAN1	CPU (中央處理器) 風扇接頭
I-SATA0~5	(Intel® PCH) 序列 ATA 介面 (SATA 3.0) 連接埠 0~5 (6Gb/秒)
JD1	針腳 1~4 : 外接喇叭
JF1	前面板接頭
JL1	機殼防盜裝置接頭
JPW1	24 針腳 ATX 主電源連接埠 (必備)
JPW2	8 針腳 CPU 電源連接埠 (必備)
JSD1	SATA DOM (磁碟模組) 電源連接埠
JSPDIF_OUT	S/PDIF (索尼/飛利浦數位傳輸介面) 輸出接頭
JSTBY1	待機電源接頭
JTPM1	TPM 信任平台模組接頭
PCI-E M.2 CONNECTOR 1	PCIe M.2 介面連接埠, 適用具高速傳輸 NVMe 介面之小尺寸以及其他可攜式 M.2 固態硬碟
SYS_FAN1/FAN2	系統風扇接頭
USB 2/3	前面板 USB 2.0 規格連接埠
USB 8/9 (3.0)	前面板 USB 3.0 規格連接埠

線上技術支援及下載

- 聯絡我們（技術支援信箱）：www.supermicro.com（Email: support@supermicro.com）
- 產品手冊文件：<http://www.supermicro.com/support/manuals>
- 驅動程式及工具程式：<ftp://ftp.supermicro.com>
- 產品安全性須知：http://www.supermicro.com/about/policies/safety_information.cfm

LED 指示燈

LED 指示燈

LED燈	說明	燈號顏色/情況	狀態
LED1	開啟/S3模式（待機）指示燈	開機：綠燈 待機S3模式：綠燈閃爍	參閱手冊

中央處理器及記憶體支援

本主機板 C7B250-CB-MK 支援第六代與第七代 Intel® Core™ i7/i5/i3/Pentium®/Celeron®處理器。記憶體支援Unbuffered DIMM non-ECC DDR4，容量最高可達 32GB，及二個高達2400MHz (288支針)的記憶體插槽。欲取得雙通道效能，請安裝成對相同型號與速度之記憶體。

註：1) 請安裝使用本公司所認可的記憶體模組以達記憶體模組最佳化。更多的記憶體模組相關訊息，請參閱本公司網頁 (<http://www.supermicro.com/products/motherboard>)。

2) 增加、移除和更換任何硬體元件前，請務必先拔掉電源線，待確實完成所有程序後，再重新連接電源線。

DIMM（記憶體模組）安裝方式



此面朝向中央處理器

DIMMA2（紅色插槽）



DIMMB2（紅色插槽）



請依照以下說明及表格安裝記憶體模組：

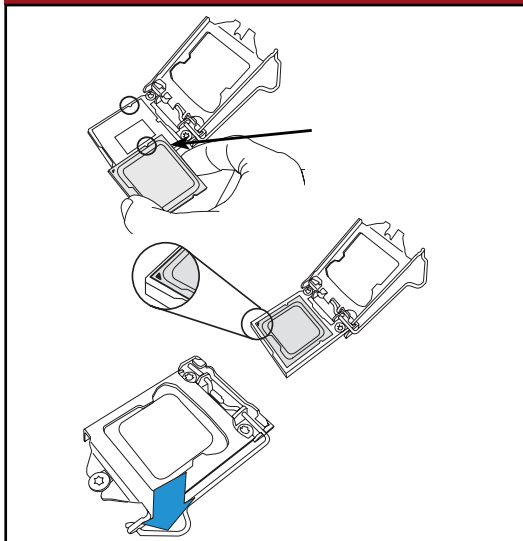
- 請遵循下列插槽編號順序依序安裝：DIMMA2（通道A、插槽2）、DIMMB2（通道B、插槽2）。
- 請使用相同型號（DDR4 DIMM）與速度之記憶體。若混合使用不同速度之記憶體，系統將依較低的記憶體速度執行。

建議插槽使用方式		
DIMMB2	DIMMA2	系統記憶體總容量
4GB	4GB	8GB
8GB	8GB	16GB
16GB	16GB	32GB

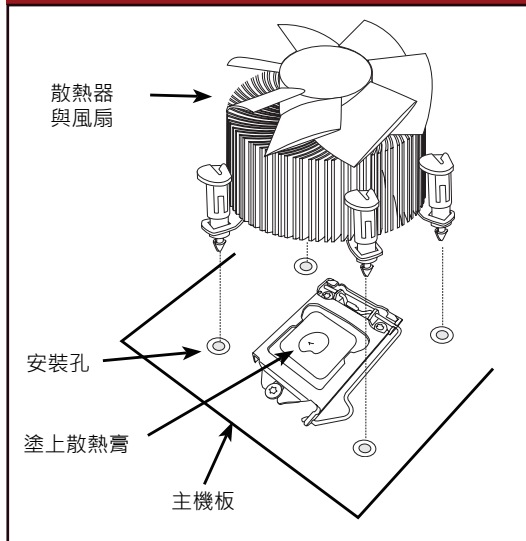
備註

- 快速參考指南中的圖例僅供安裝及操作說明使用，可能與實際產品外觀不同。
- 欲知更多跳線器/連接埠/指示燈/記憶體/主機板/中央處理器的安裝相關資訊，請參閱《SUPERMICRO C7B250-CB-MK 使用手冊》第二章。

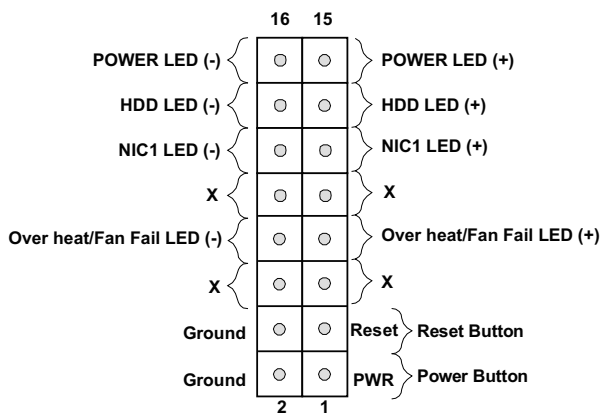
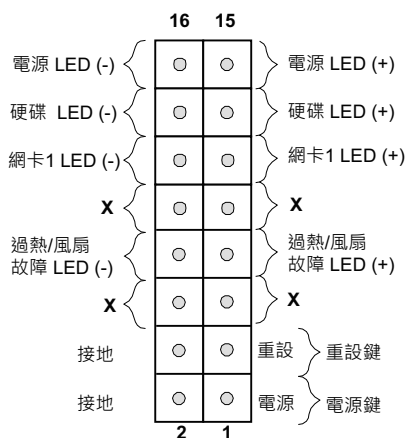
中央處理器安裝方式



散熱器安裝方式

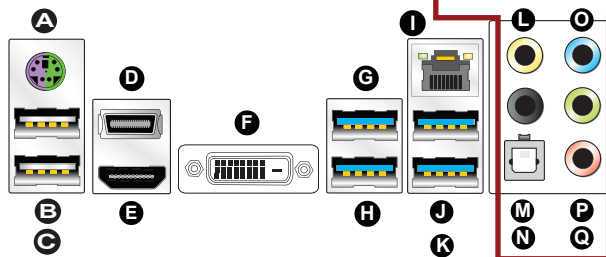


前面板控制配置 (JF1)



背板輸出/輸入連接埠

A. PS/2 鍵盤(滑鼠)連接埠	G. USB4 (3.0) 連接埠	L. 中央/低音聲道輸出
B. USB0 (2.0) 連接埠	H. USB5 (3.0) 連接埠	M. 環繞聲道輸出
C. USB1 (2.0) 連接埠	I. RJ45 LAN 乙太網路連接埠	N. S/PDIF 輸出
D. Display Port 顯示連接埠	J. USB6 (3.0) 連接埠	O. 音效輸入
E. HDMI 高畫質多媒體介面連接埠	K. USB7 (3.0) 連接埠	P. 音效輸出
F. DVI-D 數位視訊連接埠		Q. 麥克風插孔



The diagram illustrates the SUPER® CTB250-CB-MK motherboard layout. Key components and their locations are as follows:

- CPU:** Intel® Core™ i7/i5/i3 Series CPU, LGA 1151.
- Memory:** DIMMA2 and DIMMB2 slots.
- Storage:** I-SATA1, I-SATA2, I-SATA3, I-SATA4, and I-SATA5 ports.
- I/O Back Panel:** Includes LAN, USB 4/5(3.0), USB 6/7(3.0), DVI, HDMI/DP, and KB/MOUSE ports.
- Other Components:** JSTBY1 (5V STBY POWER), JSTBY2 (5V STBY POWER), JSTBY3 (5V STBY POWER), JSTBY4 (5V STBY POWER), JSTBY5 (5V STBY POWER), JSTBY6 (5V STBY POWER), JSTBY7 (5V STBY POWER), JSTBY8 (5V STBY POWER), JSTBY9 (5V STBY POWER), JSTBY10 (5V STBY POWER), JSTBY11 (5V STBY POWER), JSTBY12 (5V STBY POWER), JSTBY13 (5V STBY POWER), JSTBY14 (5V STBY POWER), JSTBY15 (5V STBY POWER), JSTBY16 (5V STBY POWER), JSTBY17 (5V STBY POWER), JSTBY18 (5V STBY POWER), JSTBY19 (5V STBY POWER), JSTBY20 (5V STBY POWER), JSTBY21 (5V STBY POWER), JSTBY22 (5V STBY POWER), JSTBY23 (5V STBY POWER), JSTBY24 (5V STBY POWER), JSTBY25 (5V STBY POWER), JSTBY26 (5V STBY POWER), JSTBY27 (5V STBY POWER), JSTBY28 (5V STBY POWER), JSTBY29 (5V STBY POWER), JSTBY30 (5V STBY POWER), JSTBY31 (5V STBY POWER), JSTBY32 (5V STBY POWER), JSTBY33 (5V STBY POWER), JSTBY34 (5V STBY POWER), JSTBY35 (5V STBY POWER), JSTBY36 (5V STBY POWER), JSTBY37 (5V STBY POWER), JSTBY38 (5V STBY POWER), JSTBY39 (5V STBY POWER), JSTBY40 (5V STBY POWER), JSTBY41 (5V STBY POWER), JSTBY42 (5V STBY POWER), JSTBY43 (5V STBY POWER), JSTBY44 (5V STBY POWER), JSTBY45 (5V STBY POWER), JSTBY46 (5V STBY POWER), JSTBY47 (5V STBY POWER), JSTBY48 (5V STBY POWER), JSTBY49 (5V STBY POWER), JSTBY50 (5V STBY POWER), JSTBY51 (5V STBY POWER), JSTBY52 (5V STBY POWER), JSTBY53 (5V STBY POWER), JSTBY54 (5V STBY POWER), JSTBY55 (5V STBY POWER), JSTBY56 (5V STBY POWER), JSTBY57 (5V STBY POWER), JSTBY58 (5V STBY POWER), JSTBY59 (5V STBY POWER), JSTBY60 (5V STBY POWER), JSTBY61 (5V STBY POWER), JSTBY62 (5V STBY POWER), JSTBY63 (5V STBY POWER), JSTBY64 (5V STBY POWER), JSTBY65 (5V STBY POWER), JSTBY66 (5V STBY POWER), JSTBY67 (5V STBY POWER), JSTBY68 (5V STBY POWER), JSTBY69 (5V STBY POWER), JSTBY70 (5V STBY POWER), JSTBY71 (5V STBY POWER), JSTBY72 (5V STBY POWER), JSTBY73 (5V STBY POWER), JSTBY74 (5V STBY POWER), JSTBY75 (5V STBY POWER), JSTBY76 (5V STBY POWER), JSTBY77 (5V STBY POWER), JSTBY78 (5V STBY POWER), JSTBY79 (5V STBY POWER), JSTBY80 (5V STBY POWER), JSTBY81 (5V STBY POWER), JSTBY82 (5V STBY POWER), JSTBY83 (5V STBY POWER), JSTBY84 (5V STBY POWER), JSTBY85 (5V STBY POWER), JSTBY86 (5V STBY POWER), JSTBY87 (5V STBY POWER), JSTBY88 (5V STBY POWER), JSTBY89 (5V STBY POWER), JSTBY90 (5V STBY POWER), JSTBY91 (5V STBY POWER), JSTBY92 (5V STBY POWER), JSTBY93 (5V STBY POWER), JSTBY94 (5V STBY POWER), JSTBY95 (5V STBY POWER), JSTBY96 (5V STBY POWER), JSTBY97 (5V STBY POWER), JSTBY98 (5V STBY POWER), JSTBY99 (5V STBY POWER), JSTBY100 (5V STBY POWER).

Red arrows indicate the locations of screw holes for mounting the motherboard. A legend at the bottom right shows a red arrow pointing to a screw hole, labeled "螺丝孔".

单一主机板包装盒内容清单

- SUPERMICRO C7B250-CB-MK 主机板 x1
- SATA 数据线 x2
- 后挡板 x1

- 快速参考指南 x1
- 驱动程序光盘 x1

跳帽/接口

跳帽 (Jumper)		
跳帽	说明	预设值
JCMOS	CMOS参数清除	针脚1-2:正常
JBR1	BIOS恢复开关	针脚1-2:正常
JBT1	CMOS参数清除 (板载)	短路触点可清除CMOS
JI2C1/JI2C2	系统插槽PCI-E接口的 SMB 插座	未连接 (不启用)
JPME2	Intel® 制造模式	针脚1-2:正常
JPUSB1	USB唤醒功能启用(后面板USB 0/1)	针脚1-2:启用
JWD1	看门狗功能启用	针脚1-2:重启

连接接口 (Connector)	
接口	说明
AUDIO FP	前面板音效接口
BT1	板载电池
COM1	COM1 串口
CPU_FAN1	CPU风扇接口
I-SATA0~5	(Intel® PCH)串行ATA(SATA)3.0 接口0~5 (6Gb/sec)
JD1	针脚1~4:外置喇叭
JF1	前面板接口
JL1	机箱防盗装置接口
JPW1	24针ATX主电源接口 (必备)
JPW2	8针CPU 供电接口 (必备)
JSD1	SATA DOM (磁盘模块) 供电接口
JSPDIF_OUT	S/PDIF (索尼/飞利浦数字传输接口) 输出接口
JSTBY1	待机电源插座
JTPM1	TPM可信执行平台模块接口
PCI-E M.2 CONNECTOR 1	PCIe M.2 总线接口, 适用于小尺寸具高速传输NVMe接口以及其他便携式M.2 固态硬盘
SYS_FAN1/FAN2	系统风扇接口
USB 2/3	前面板USB2.0接口
USB 8/9 (3.0)	前面板USB3.0接口

网上技术支持及下载

- 联络我们（技术支持信箱）：www.supermicro.com (Email: support@supermicro.com)
- 产品用户手册文件：<http://www.supermicro.com/support/manuals>
- 驱动程序及工具软件：<ftp://ftp.supermicro.com>
- 产品安全性须知：http://www.supermicro.com/about/policies/safety_information.cfm

LED 指示灯

LED 指示灯			
LED 灯	说明	灯号颜色/情况	状态
LED1	电源开机 S3 (Suspend to RAM) LED	电源开机: 绿色 亮 S3: 绿色 闪烁	参考用户手册

中央处理器及内存支持

本主机板 C7B250-CB-MK 支持第6代与第7代 Intel® Core™ i7/i5/i3/Pentium®/Celeron® 处理器。内存支持 Unbuffered DIMM non-ECC DDR4, 内存容量最高可达 32GB, 及二个 2400MHz (288-针) 的内存插槽。欲取得双通道效能, 请安装成对相同型号与速度之内存条。

- 注：1) 请安装使用本公司所认可的内存模组以达到内存模组性能最佳化。更多的内存模组相关信息, 请参阅本公司网页 (<http://www.supermicro.com/products/motherboard>)
- 2) 增加、移除和更换任何零部件前, 请务必先拔掉电源线, 待完成所有操作后, 再重新连接电源线。

DIMM (内存模组) 安装方式



此面朝向中央处理器

DIMMA2 (红色插槽)



DIMMB2 (红色插槽)



请依照以下说明及表格安装内存模组：

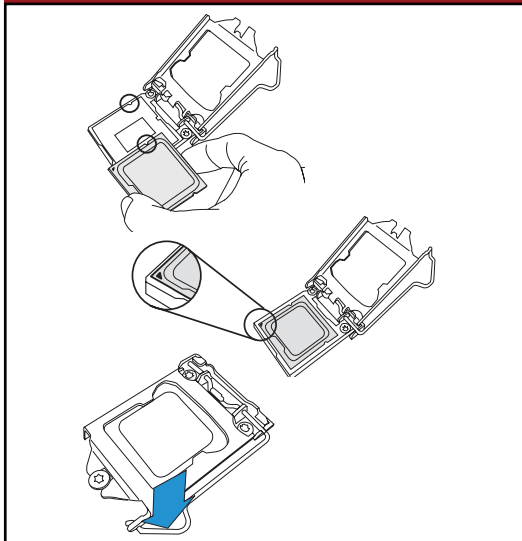
- 请遵循下列插槽编号顺序依序安装：DIMMA2 (通道A、插槽2)、DIMMB2 (通道B、插槽2)。
- 请使用相同型号 (DDR4 DIMM) 与速度之内存。若混合使用不同速度之内存, 系统将依据较低的内存速度执行。

建议插槽使用方式		
DIMMB2	DIMMA2	系统内存总容量
4GB	4GB	8GB
8GB	8GB	16GB
16GB	16GB	32GB

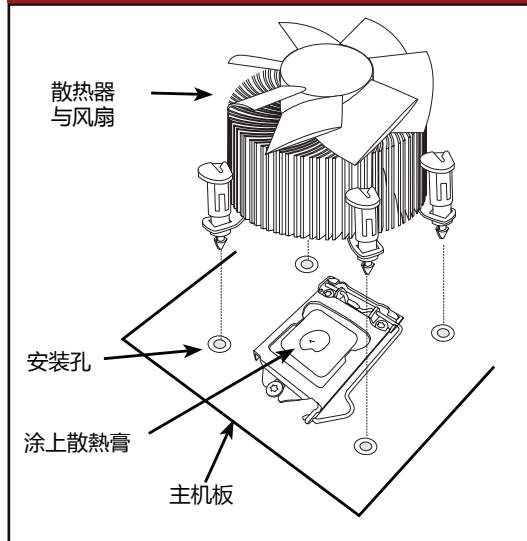
备注

- 快速参考指南中的图例仅供安装及操作说明使用，可能与实际产品外观不同。
- 欲知更多跳帽/接口/指示灯/内存条/主板/中央处理器的安装相关信息，请参阅《SUPERMICRO C7B250-CB-MK 使用手册》第二章。

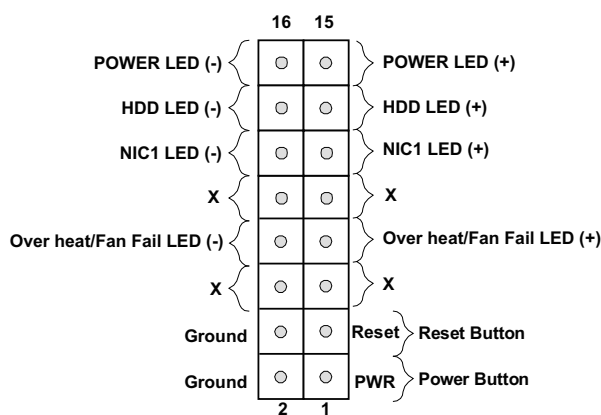
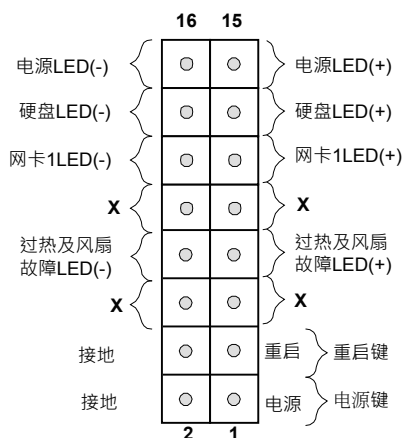
中央处理器安装方式



散热器安装方式

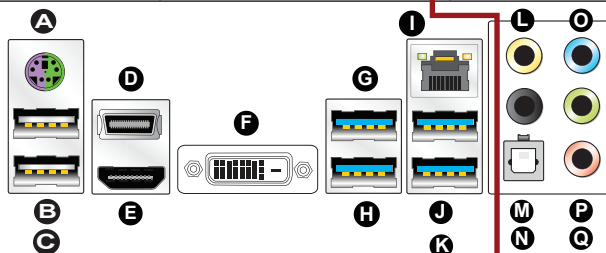


前面板控制配置 (JF1)



背面板输入/输出接口

A. PS/2 键盘/鼠标	G. USB3.0 接口 4	L. 中央/低音声道输出
B. USB 2.0 接口 0	H. USB3.0 接口 5	M. 环绕立体声道输出
C. USB 2.0 接口 1	I. 千兆以太网卡RJ45 接口	N. S/PDIF 输出
D. Display 输出接口	J. USB3.0 接口 6	O. 音效输入
E. HDMI 接口	K. USB3.0 接口 7	P. 音效输出
F. DVI-D 数字视频接口		Q. 麦克风插孔



The diagram illustrates the mainboard layout for the SUPERIOR C7B250-CB-MK. Key components and their locations are as follows:

- CPU:** Intel® Core™ i7/i5/i3 Series CPU, LGA 1151, located in the center-right.
- Memory:** DIMMA2 and DIMMB2 slots are located on the right side.
- Storage:** I-SATA1 to I-SATA5 are located at the bottom left.
- Ports:**
 - I/O BACK PANEL:** Located at the top right, including HD AUDIO, LAN, USB 4/5(3.0), USB 6/7(3.0), DVI, HDMI/DP, and KB/MOUSE.
 - I/O FRONT PANEL:** Located at the bottom right, including SYS_FAN1, JPBW1, and JPB2.
- Other Components:**
 - BIOS LICENSE:** Located near the CPU.
 - PCIE M.2 CONNECTOR 1:** Located near the CPU.
 - MAC CODE:** Located near the bottom left.
 - BAR CODE:** Located near the bottom left.
 - USB 2.0:** Located near the bottom left.
 - USB 3.0:** Located near the bottom left.
 - USB 4/5(3.0):** Located near the bottom left.
 - USB 6/7(3.0):** Located near the bottom left.
 - USB 8/9(3.0):** Located near the bottom left.
 - USB 10/11(3.0):** Located near the bottom left.
 - USB 12/13(3.0):** Located near the bottom left.
 - USB 14/15(3.0):** Located near the bottom left.
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 - USB 40/41(3.0):** Located near the bottom left.
 - USB 42/43(3.0):** Located near the bottom left.
 - USB 44/45(3.0):** Located near the bottom left.
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 - USB 48/49(3.0):** Located near the bottom left.
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 - USB 66/67(3.0):** Located near the bottom left.
 - USB 68/69(3.0):** Located near the bottom left.
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 - USB 236/237(3.0):** Located near the bottom left.
 - USB 238/239(3.0):** Located near the bottom left.
 - USB 240/241(3.0):** Located near the bottom left.
 - USB 242/243(3.0):** Located near the bottom left.
 - USB 244/245(3.0):** Located near the bottom left.
 - USB 246/247(3.0):**

パッケージ内容

- SUPERMICRO C7B250-CB-MK マザーボード x 1
- SATA ケーブル x 2, I/O シールド x 1
- クイック・リファレンス・ガイド x 1, ドライブCD x 1

ジャンパとコネクタ

ジャンパ		
ジャンパ	説明	デフォルト
JCMOS	CMOS クリア	1-2: (ノーマル)
JBR1	BIOS リカバリ	1-2: (ノーマル)
JBT1	CMOS クリア (オンボード)	CMOSクリアのショートパッド
JI2C1/JI2C2	SMB → PCI-E スロット	接続されていません (有効になっていません)
JPME2	Intel® 製造モード	1-2: (ノーマル)
JPUSB1	USB Wake Up 有効化 (背面パネルUSB 0/1)	1-2: (有効)
JWD1	ウォッチドッグ機能 有効化	1-2: (リセット)

コネクタ	
コネクタ	説明
AUDIO FP	前面パネル・オーディオ・ヘッダー
BT1	オンボード・バッテリー
COM1	COM1 ポート・ヘッダー
CPU_FAN1	CPU ファン・ヘッダー
I-SATA0~5	(Intel® PCH) シリアルATA (SATA) 3.0 ポート 0~5 (6Gb/sec)
JD1	ピン 1~4: 外部スピーカー
JF1	前面パネル・コントロール・ヘッダー
JL1	筐体開閉検出ヘッダー
JPW1	24-pin ATX 主電源コネクタ (必須)
JPW2	8-pin CPU 電源コネクタ (必須)
JSD1	SATA DOM (Disk On Module) 電源コネクタ
JSPDIF_OUT	Sony/Philips デジタル・インタフェース (S/PDIF) 出力ヘッダー
JSTBY1	スタンバイ電源ヘッダー
JTPM1	トラステッド・プラットフォーム・モジュール (TPM) ヘッダー
PCI-E M.2 CONNECTOR 1	PCI-E M.2 コネクタ 1 と 2, ハイスピード NVMe SSD用、スモール・フォームファクタ・デバイスやポータブル・デバイス
SYS_FAN1/FAN2	システム・ファン・ヘッダー
USB 2/3	前面パネルアクセス可能 USB 3.0 ヘッダー
USB 8/9 (3.0)	前面パネルアクセス可能 USB 3.0 ヘッダー

お問い合わせ

- www.supermicro.com (Email: support@supermicro.com)
- マニュアル: <http://www.supermicro.com/support/manuals>
- ドライバ & ユーティリティ: <ftp://ftp.supermicro.com>
- 安全性: http://www.supermicro.com/about/policies/safety_information.cfm

LED インジケータ

LED インジケータ

LED	説明	色 / 状態	ステータス
LED1	電源 オン S3 (RAM サスペンド) LED	電源オン: 緑色点灯 S3: 緑色点滅	マニュアル参照

CPU & メモリ サポート

C7B250-CB-MK は、第7世代／第6世代の Intel® Core™ i7/i5/i3/Pentium®/Celeron® プロセッサ、最大 32GBのUnbuffered (UDIMM) non-ECC DDR4 メモリ、2つの 288ピン・メモリ・スロットに2400MHz をサポートします。このDIMMスロットに、同じ種類、同じ容量の、一組のメモリ・モジュールを組込むことで、メモリ・インタリーブが構成され、メモリ・パフォーマンスが向上します。

- 注: 1) メモリの最適化には、Supermicro によって検証済みの、DIMMモジュールのみを使用してください。メモリに関する最新情報は、弊社ウェブサイト <http://www.supermicro.com/products/motherboard> をご覧ください。
- 2) ハードウェア構成部品の取り外し、交換、追加の前には、必ず電源コードを外し、常に最後に電源コードを接続してください。

DIMM メモリのインストール



CPUの方向

DIMMA2 (レッド・スロット)



DIMMB2 (レッド・スロット)



メモリ搭載ガイドライン

メモリ・モジュールをインストールする際、以下の順序でDIMMスロットに挿入してください: DIMMA2、DIMMB2。

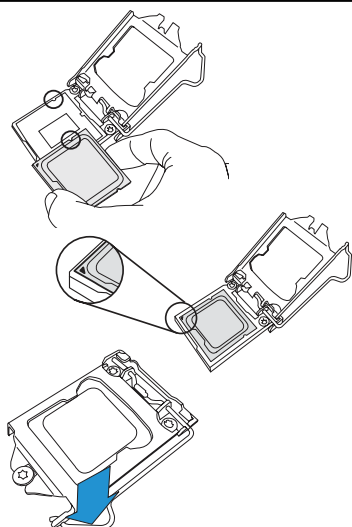
- 常に同じ容量、種類、速度の DDR4 DIMM モジュールを使用してください。
- 異なる速度の DIMM をインストール可能ですが、その場合は、最も遅い DIMM の実行速度に合わせて、すべての DIMM が動作します。

推奨メモリ搭載 (バランスの取れた配置)		
DIMMB2	DIMMA2	システムメモリの合計
4GB	4GB	8GB
8GB	8GB	16GB
16GB	16GB	32GB

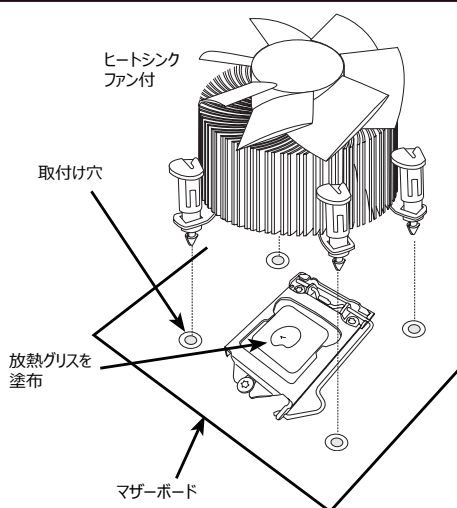
注

- クイック・リファレンス・ガイドに掲載されている図は参考イラストです。ご利用のコンポーネントは、本ガイドに掲載された図と異なる場合があります。
- ジャンパ、コネクタ、LED表示、メモリ・サポート、CPU／マザーボードのインストール方法に関する詳細情報は、ユーザーマニュアルの第2章をご参照ください。

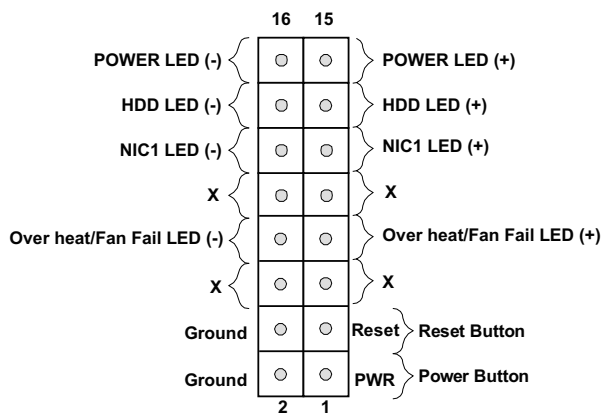
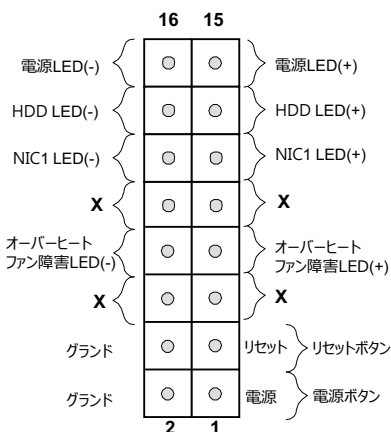
CPU のインストール



ヒートシンクのインストール

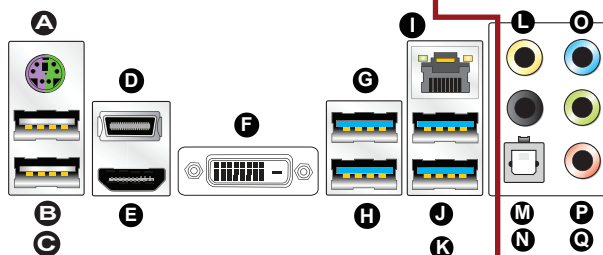


前面パネルコントロール (JF1)

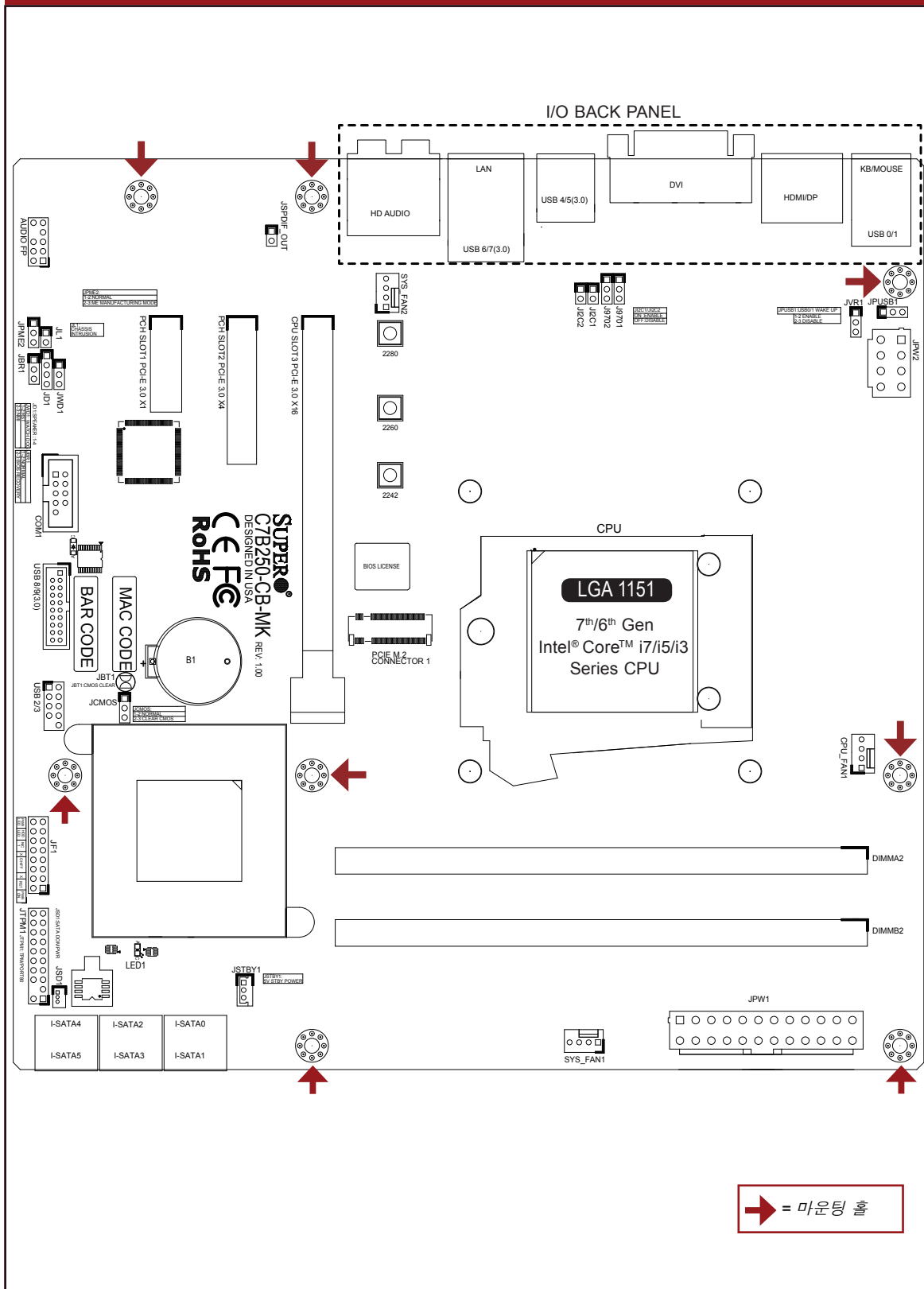


背面パネル I/O コネクタ

A. PS/2 キーボード/マウスポート	G. USB 3.0 ポート 4	L. Center/LFE 出力
B. USB 2.0 ポート 0	H. USB 3.0 ポート 5	M. サラウンド出力
C. USB 2.0 ポート 1	I. Gb Ethernet RJ45 LANポート	N. S/PDIF 出力
D. ディスプレイ・ポート	J. USB 3.0 ポート 6	O. ライン・入力
E. HDMI ポート	K. USB 3.0 ポート 7	P. ライン・出力
F. DVI-D ポート		Q. マイク入力



마더보드 레이아웃 및 특징



패키지 구성

- Supermicro 마더보드 (1)개
- SATA 케이블 (2)개, I/O 실드 (1)개
- 퀵 레퍼런스 (1)개, Driver CD (1)개

점퍼 및 커넥터

점퍼		
점퍼	설명	기본값
JCMOS	CMOS 클리어	1-2: 일반
JBR1	BIOS 복구	1-2: 일반
JBT1	CMOS 클리어(온보드)	CMOS 클리어 쇼트 패드
JI2C1/JI2C2	SMB - PCI-E 슬롯	연결되지 않음 (사용 불가능)
JPME2	Intel® 제조 모드	1-2: 일반
JPUSB1	USB 웨이크업 활성화 (후면 패널 USB 0/1)	1-2: 사용
JWD1	워치독 기능 활성화	1-2: RST

커넥터	
커넥터	설명
AUDIO FP	전면 패널 오디오 헤더
BT1	온보드 배터리
COM1	COM1 포트 헤더
CPU_FAN1	CPU 팬 헤더
I-SATA0~5	Intel® PCH SATA 3.0 포트 0~5번
JD1	핀 1~4: 외부 스피커
JF1	전면 패널 제어 헤더
JL1	케이스 도난 감지 헤더
JPW1	24핀 ATX 전원 커넥터 (필수 연결)
JPW2	8핀 CPU 전원 커넥터 (필수 연결)
JSD1	SATA DOM(Disk On Module) 전원 커넥터
JSPDIF_OUT	S/PDIF 디지털 사운드 출력 헤더
JSTBY1	대기 전원 헤더
JTPM1	신뢰할 수 있는 플랫폼 모듈(TPM) 헤더
PCI-E M.2 CONNECTOR 1	PCI-E M.2 커넥터 1과 2, 작은 폼팩터 장치 및 기타 고속 NVMe SSD용 휴대용 장치
SYS_FAN1/FAN2	시스템 팬 헤더
USB 2/3	전면 패널 연결 USB 2.0 헤더
USB 8/9 (3.0)	전면 패널 연결 USB 3.0 헤더

연락처 정보

- www.supermicro.com (이메일: support@supermicro.com)
- 설명서: <http://www.supermicro.com/support/manuals>
- 드라이버 & 유틸리티: <ftp://ftp.supermicro.com>
- 안전 관련 정보: http://www.supermicro.com/about/policies/safety_information.cfm

LED 표시등

LED 표시등			
LED	설명	색상/상태	상태
LED1	전원 켜짐 S3 (RAM 일시 중지) LED	전원 켜짐: 녹색 점등 S3: 녹색 점멸	설명서 참조

CPU & 메모리 지원

C7B250-CB-MK은 최신 규격의 Intel® Core™ i7/i5/i3/Pentium®/Celeron® 프로세서, 최대 32GB의 Unbuffered(UDIMM) non-ECC DDR4 메모리 그리고 2400MHz 의 속도를 지원하는 2개의 288핀 규격 메모리 슬롯을 가지고 있습니다. 메모리 슬롯에 동일한 속도와 용량의 메모리 모듈 한 쌍을 설치하면 메모리 인터리빙을 통해 메모리 성능 이 향상됩니다.

 참고: 1) 메모리 최적화를 위해 Supermicro에서 권장하는 메모리 모듈만 사용하십시오. 업데이트된 최신 정보는 저희 웹사이트 <http://www.supermicro.com/products/motherboard>를 참조하십시오.

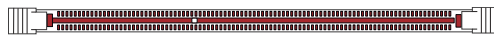
2) 전원 코드는 항상 마지막에 연결하고 하드웨어 부품을 추가, 제거 또는 변경하기 전에 분리하십시오.

DIMM 메모리 설치

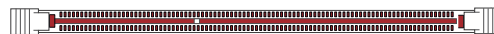


CPU 방향

DIMMA2 (빨강색 슬롯)



DIMMB2 (빨강색 슬롯)



메모리 설치 지침

메모리 모듈을 설치할 때 다음 순서로 메모리를 슬롯에 설치해야 합니다: DIMMA2, DIMMB2.

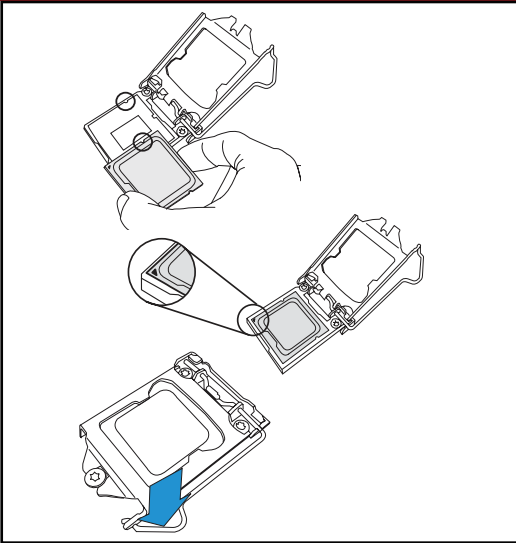
- 항상 같은 용량, 규격 및 속도의 DDR4 메모리 모듈을 사용하십시오.
- 서로 다른 속도의 메모리를 설치할 수 있지만 모든 메모리가 가장 느린 메모리속도로 동작되게 됩니다.

권장 설치(밸런스)		
DIMMB2	DIMMA2	총 시스템 메모리
4GB	4GB	8GB
8GB	8GB	16GB
16GB	16GB	32GB

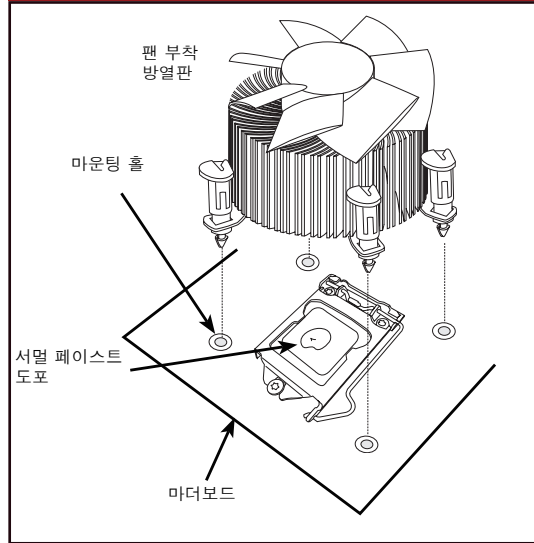
참고

- 빠른 설치 가이드에 사용된 이미지는 예시용일뿐입니다. 실제 부품은본가이드에 설명된 이미지와 정확하게 일치하지 않을 수도 있습니다.
- 절퍼, 커넥터, LED 표시등, 메모리 지원 및 CPU/마더보드 설치에 대한 자세한 설명은 사용 설명서의 제2장을 참조하십시오.

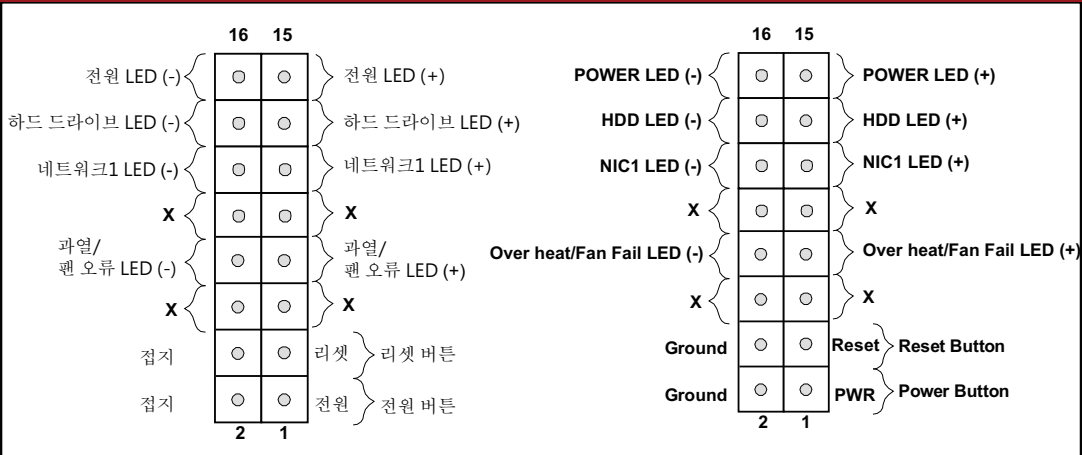
CPU 설치



CPU 쿨러설치



전면 패널 제어(JF1)



후면 패널 I/O 커넥터

A. PS/2 키보드/마우스 포트	G. USB 3.0 포트 4	L. Center/LFE 출력
B. USB 2.0 포트 0	H. USB 3.0 포트 5	M. 서라운드 출력
C. USB 2.0 포트 1	I. 기가비트 이더넷 RJ45 LAN 포트	N. S/PDIF 출력
D. 디스플레이 포트	J. USB 3.0 포트 6	O. 라인 입력
E. HDMI 포트	K. USB 3.0 포트 7	P. 라인 출력
F. DVI-D 포트		Q. 마이크 입력

