SUPERMICRO®
X11SAE/X11SAE-F
Quick Reference Guide Rev. 1.0a

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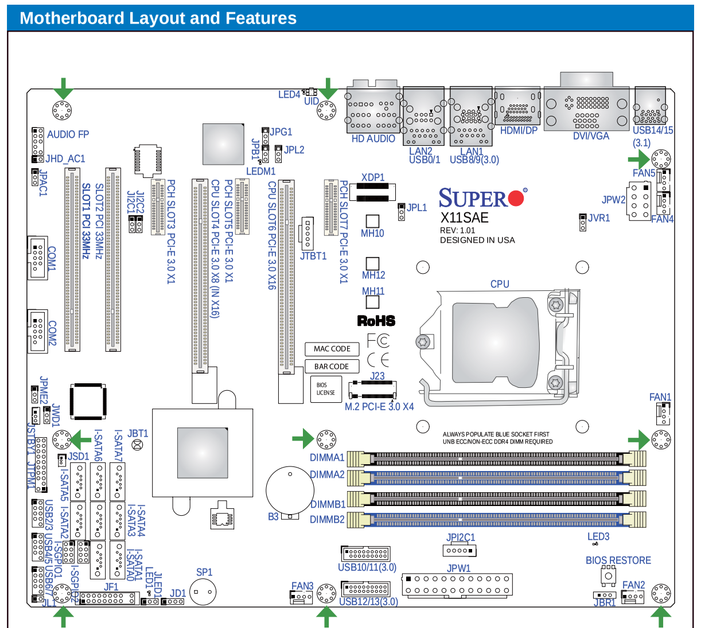
For your system to work properly, please download appropriate drivers/images/user's manual from the links below:
- Manuals: http://www.supermicro.com/support/manuals
- Drivers & Utilities: ftp://ftp.supermicro.com/CDR_Images/CDR-X11-UP/
- Safety: http://www.supermicro.com/about/policies/safety_information.cfm

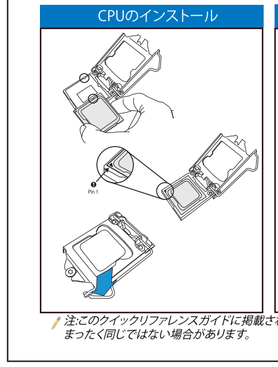
Package Contents
- One (1) Supermicro Motherboard
- Six (6) SATA Cables
- One (1) I/O Shield
- One (1) Quick Reference Guide

MNL-1820-QRG-10a

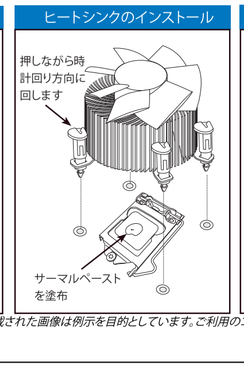
Motherboard Layout and Features



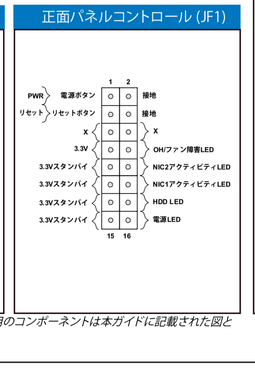
CPU Installation



Heatsink Installation



Front Panel Control (JF1)



Note: 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.

Connectors and LED Indicators

Connectors

Connector	Description
AUDIO FP	Front Panel Audio Header
B3	Onboard Battery
BIOS RESTORE	Restores the BIOS from Firmware (SUPER.ROM) on a USB memory device
COM1/COM2	Serial COM Headers
DVI/VGA	Digital Visual Interface/VGA Ports
FAN1 - FAN5	System/CPU Fan Headers (FAN1: CPU Fan)
HD AUDIO	High-Definition Audio Connector
HDMI/DP	High-Definition Multimedia Interface/DisplayPort Ports
J23	M.2 PCI-E 3.0 X4 Slot
JD1	Speaker/Buzzer (Pins 1-4: Speaker, Pins 3-4: Buzzer)
JF1	Front Panel Connector
JL1	Chassis Intrusion Header
JLED1	3-Pin Power LED
JPI2C1	Power I2C System Management Bus (Power SMB) Header
JPW1	24-pin ATX Power Connector
JPW2	8-pin 12V DC Power Connector
JSD1	SATA DOM Power
JSTBY1	Standby Power Header
JTBT1	General Purpose I/O Header for a Thunderbolt add-on card
JTPM1	Trusted Platform Module/Port 80 Connector
JVR1	PWM SMB Programming (for debugging only)
LAN1/LAN2	Gb LAN (RJ45) Ports
MH10 - MH12	M.2 Mounting Holes
I-SATA0 - I-SATA7	Intel® SATA Ports
SLOT1/SLOT2	PCI 33MHz Slots
SLOT3/SLOT5/SLOT7	PCH PCI-E 3.0 X1 Slots
SLOT4	CPU PCI-E 3.0 X8 (IN X16) Slot
SLOT6	CPU PCI-E 3.0 X16 Slot
SP1	Internal Speaker/Buzzer
I-SGPIO1/I-SGPIO2	Serial General Purpose I/O Headers
UID	Unit Identification Switch
USB 0/1, 8/9, 14/15	Back panel USB Ports (Ports 0/1: USB 2.0, Ports 8/9: USB 3.0, Ports 14/15: USB 3.1)
USB 2/3, 4/5, 6/7 USB 10/11, 12/13	Front Access USB Headers (Headers 2/3, 4/5, 6/7: USB 2.0, Headers 10/11 and 12/13: USB 3.0)

LED Indicators

LED	Description	Status
LED1	Power LED	Green: Power On
LED3	Standby Power LED	On: Power On
LED4	UID LED	Blue On: Unit Identified
LEDM1	BMC HeartBeat LED	Green Blinking: BMC Normal

Note: Refer to Chapter 1 of the User Manual for detailed information on jumpers, connectors, and LED indicators.

Jumpers

Jumpers

Jumper	Description	Default Setting
JBR1	BIOS Recovery	Pins 1-2 (Normal)
JBT1	CMOS Clear	Open (Normal)
JHD_AC1	High Definition Audion Enable	Open (Enabled)
JI²C1/JI²C2	SMB to PC-E Slots Enable/Disable	Both Pins 2-3 (Disable)
JPAC1	Audio Enable	Pins 1-2 (Enabled)
JPB1	BMC Enable	Pins 1-2 (Enabled)
JPG1	Onboard VGA Enable	Pins 1-2 (Enabled)
JPL1/JPL2	LAN1/LAN2 Enable/Disable	Pins 1-2 (Enabled)
JPME2	ME Manufacturing Mode	Pins 1-2 (Normal)
JWD1	Watch Dog	Pins 1-2 (Reset)

CPU Support

The X11SAE/X11SAE-F motherboard supports the Intel® E3-1200 V5, 6th Gen Core i3/i5/i7, Pentium and Celeron processors.

Memory Support

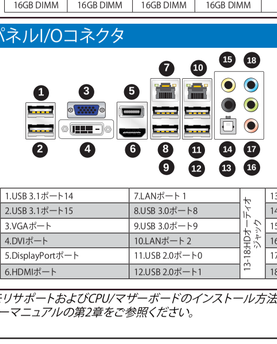
The X11SAE/X11SAE-F motherboard supports up to 64GB of DDR4 ECC/Non-ECC UDIMM memory at a speed of 2133MHz.

DIMM Memory Installation

When installing memory, the DIMM slots must be populated in the following order: DIMMA2, DIMMB2, then DIMMA1, DIMMB1. Always populate the blue slots first. Please see the layout on the left for the location of the DIMM slots.

Recommended Population (Balanced)				
DIMMA2	DIMMB2	DIMMA1	DIMMB1	Total Memory
2GB DIMM	2GB DIMM			4GB
2GB DIMM	2GB DIMM	2GB DIMM	2GB DIMM	8GB
4GB DIMM	4GB DIMM			8GB
4GB DIMM	4GB DIMM	4GB DIMM	4GB DIMM	16GB
8GB DIMM	8GB DIMM			16GB
8GB DIMM	8GB DIMM	8GB DIMM	8GB DIMM	32GB
16GB DIMM	16GB DIMM			32GB
16GB DIMM	16GB DIMM	16GB DIMM	16GB DIMM	64GB

Back Panel I/O Connectors



1. USB 3.1 Port 14	7. LAN Port 1	13. SPDIF Out
2. USB 3.1 Port 15	8. USB 3.0 Port 8	14. Surround Out
3. VGA Port	9. USB 3.0 Port 9	15. Center/LFE Out
4. DVI Port	10. LAN Port 2	16. Mic In
5. DisplayPort Port	11. USB 2.0 Port 0	17. Line Out
6. HDMI Port	12. USB 2.0 Port 1	18. Line In

Note: Refer to Chapter 2 of the User Manual for detailed information on memory support and CPU/ motherboard installation instructions.

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X11SAE/X11SAE-F 快速參考指南修訂版本 1.0a

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請至以下連結下載合適的產品文件及驅動工具程式，以確保系統的正常運作。
- 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/CDR_Images/CDR-X11-UP/
- 產品安全性須知：http://www.supermicro.com/about/policies/safety_information.cfm

單一主機板包裝盒內容清單
- Supermicro X11SAE/X11SAE-F 主機板 x1
- SATA 訊號線 x6
- 後檔板 x1
- 快速參考指南 x1

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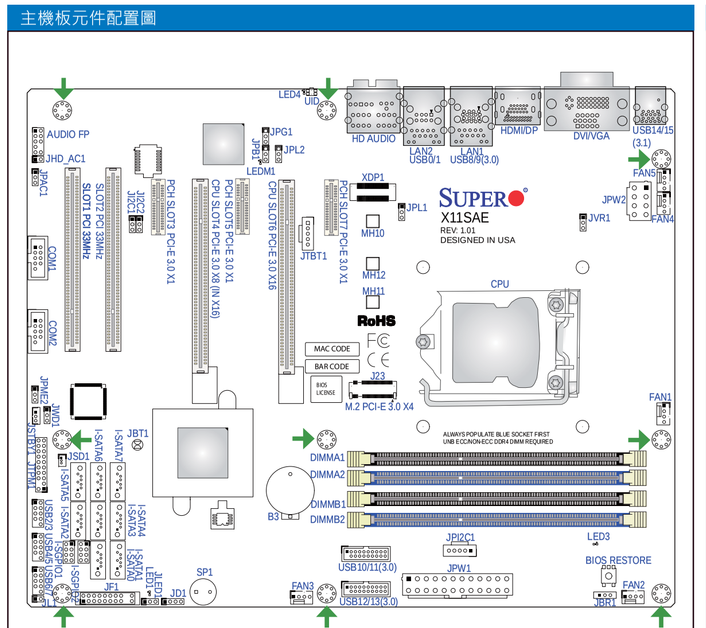
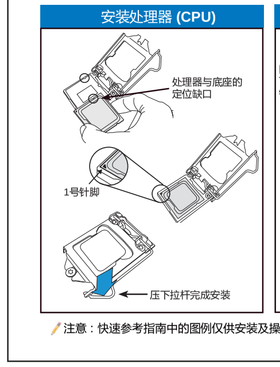
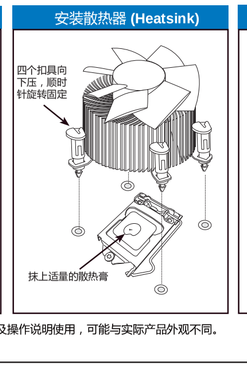
主機板元件配置圖



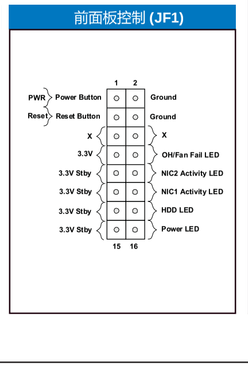
安裝中央處理器 (CPU)



安裝散熱器 (Heatsink)



前控制面板 (JF1)



注意：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。

連接埠/指示燈

連接埠 (Connectors)

連接埠	描述
AUDIO FP	前面板 AUDIO 插座
B3	內建電池
BIOS RESTORE	復原 BIOS 按鈕
COM1/COM2	COM1/COM2 連接埠
DVI/VGA	Digital Visual Interface/VGA 連接埠
FAN1 - FAN5	System/CPU 風扇插座 (FAN1: CPU Fan)
HD AUDIO	高清晰音效插孔
HDMI/DP	High-Definition Multimedia Interface/DisplayPort 連接埠
J23	M.2 PCI-E 3.0 X4 插座
JD1	喇叭/蜂鳴器 (Pins 1-4: 使用外接喇叭, Pins 3-4: 使用內置蜂鳴器)
JF1	前面板控制接头
JL1	机箱防盗
JLED1	3-Pin 電源 LED
JPI2C1	Power I2C System Management Bus (Power SMB) 插座
JPW1	24-pin ATX 主电源插座
JPW2	8-pin 12V DC 电源插座
JSD1	SATA DOM 電源插座
JSTBY1	備用電源插槽
JTBT1	Thunderbolt add-on card I/O 傳輸插座
JTPM1	Trusted Platform Module/Port 80 插座
JVR1	PWM SMB Programming (除錯專用)
LAN1/LAN2	Gb LAN (RJ45) 網路線連接埠
MH10 - MH12	M.2 安裝孔
I-SATA0 - I-SATA7	Intel® SATA 連接埠
SLOT1/SLOT2	PCI 33MHz 插槽
SLOT3/SLOT5/SLOT7	PCH PCI-E 3.0 X1 插槽
SLOT4	CPU PCI-E 3.0 X8 (IN X16) 插槽
SLOT6	CPU PCI-E 3.0 X16 插槽
SP1	內建蜂鳴器
I-SGPIO1/I-SGPIO2	Serial General Purpose I/O 插座
UID	Unit Identification 按鈕
USB 0/1, 8/9, 14/15	背板 USB 連接埠 (Ports 0/1: USB 2.0, Ports 8/9: USB 3.0, Ports 14/15: USB 3.1)
USB 2/3, 4/5, 6/7 USB 10/11, 12/13	前面板存取 USB 連接埠 (Ports 2/3, 4/5, 6/7: USB 2.0, Ports 10/11 and 12/13: USB 3.0)

指示燈 (LED Indicators)

指示燈	描述	燈號及狀態
LED1	電源指示燈	綠：Power On
LED3	備用電源指示燈	On: Power On
LED4	UID 指示燈	藍：Unit Identified
LEDM1	BMC HeartBeat 指示燈	綠燈閃爍：BMC Normal

注意：如需更多的跳線器/連接埠/指示燈相關資訊，請參閱 Supermicro X11SAE/X11SAE-F 主機板使用手冊第一章。

跳線器

跳線器 (Jumpers)

跳線器	描述	預設值
JBR1	BIOS 復原開關	Pins 1-2 (正常)
JBT1	清除 CMOS	Open (正常)
JHD_AC1	啟用 High Definition Audion	Open (啟用)
JI²C1/JI²C2	PCI-E 插槽的 SMB 插座	Both Pins 2-3 (停用)
JPAC1	啟用 Audio	Pins 1-2 (啟用)
JPB1	啟用 BMC	Pins 1-2 (啟用)
JPG1	內建啟用 VGA	Pins 1-2 (啟用)
JPL1/JPL2	啟用/停用 LAN1/LAN2	Pins 1-2 (啟用)
JPME2	ME Manufacturing Mode	Pins 1-2 (正常)
JWD1	Watch Dog	Pins 1-2 (重設)

中央處理器支援

本主機板 (X11SAE/X11SAE-F) 支援 Intel® E3-1200 V5，第六代 Core i3/i5/i7、Pentium 以及 Celeron 中央處理器。

記憶體支援

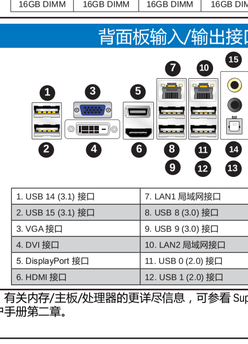
記憶體支援 DDR4 ECC/Non-ECC UDIMM，傳輸頻率 2133MHz，容量最高可達 64GB。

DIMM 記憶體安裝

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)、DIMMA1 (通道A - 插槽1)、DIMMB1 (通道B - 插槽1)。請先將記憶體安裝於藍色插槽。記憶體插槽位置請見本指南提供的主機板元件配置圖。

Recommended Population (Balanced)				
DIMMA2	DIMMB2	DIMMA1	DIMMB1	Total Memory
2GB DIMM	2GB DIMM			4GB
2GB DIMM	2GB DIMM	2GB DIMM	2GB DIMM	8GB
4GB DIMM	4GB DIMM			8GB
4GB DIMM	4GB DIMM	4GB DIMM	4GB DIMM	16GB
8GB DIMM	8GB DIMM			16GB
8GB DIMM	8GB DIMM	8GB DIMM	8GB DIMM	32GB
16GB DIMM	16GB DIMM			32GB
16GB DIMM	16GB DIMM	16GB DIMM	16GB DIMM	64GB

背板輸出/入裝置連接埠



1. USB 14 (3.1) 連接埠	7. LAN1 網路連接埠	13. SPDIF Out
2. USB 15 (3.1) 連接埠	8. USB 8 (3.0) 連接埠	14. Surround Out
3. VGA 連接埠	9. USB 9 (3.0) 連接埠	15. Center/LFE Out
4. DVI 連接埠	10. LAN2 網路連接埠	16. Mic In
5. DisplayPort 連接埠	11. USB 0 (2.0) 連接埠	17. Line Out
6. HDMI 連接埠	12. USB 1 (2.0) 連接埠	18. Line In

注意：如需更多的記憶體/主機板/中央處理器安裝相關資訊，請參閱 Supermicro X11SAE/X11SAE-F 主機板使用手冊第二章。

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为确保系统正常运行，请访问以下所列链接下载适当的产品技术文件及驱动工具软件。
- 产品指南及用户手册：http://www.supermicro.com/support/manuals
- 驱动及工具软件下载：ftp://ftp.supermicro.com/CDR_Images/CDR-X11-UP/
- 产品安全信息：http://www.supermicro.com/about/policies/safety_information.cfm

主板包装盒内物品
- Supermicro X11SAE/X11SAE-F 主板 x1
- SATA 电缆 x6
- I/O 挡板 x1
- 快速参考指南 x1

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主板组件配置图

安装处理器 (CPU)

安装散热器 (Heatsink)

前面板控制 (JF1)

注意：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。

连接器/指示灯

连接器 (Connectors)

连接器	说明
AUDIO FP	前面板 AUDIO 插座
B3	板载电池
BIOS RESTORE	BIOS 恢复按钮
COM1/COM2	COM1/COM2 接口
DVI/VGA	Digital Visual Interface/VGA 接口
FAN1 - FAN5	System/CPU 风扇插座 (FAN1: CPU Fan)
HD AUDIO	高保真音频插孔
HDMI/DP	High-Definition Multimedia Interface/DisplayPort 接口
J23	M.2 PCI-E 3.0 X4 插座
JD1	喇叭/蜂鸣器 (Pins 1-4: 使用外置喇叭, Pins 3-4: 使用内置蜂鸣器)
JF1	前面板控制接头
JL1	机箱防盗
JLED1	3-Pin 电源 LED
JPI2C1	Power I2C System Management Bus (Power SMB) 插座
JPW1	24-pin ATX 主电源插座
JPW2	8-pin 12V DC 电源插座
JSD1	SATA DOM 电源插座
JSTBY1	备用电源插槽
JTBT1	Thunderbolt add-on card 通用输入/输出接口
JTPM1	Trusted Platform Module/Port 80 插座
JVR1	PWM SMB Programming (仅用于调试除错)
LAN1/LAN2	Gb LAN (RJ45) 局域网接口
MH10 - MH12	M.2 安装孔
I-SATA0 - I-SATA7	Intel® SATA 接口
SLOT1/SLOT2	PCI 33MHz 插槽
SLOT3/SLOT5/SLOT7	PCH PCI-E 3.0 X1 插槽
SLOT4	CPU PCI-E 3.0 X8 (IN X16) 插槽
SLOT6	CPU PCI-E 3.0 X16 插槽
SP1	内置蜂鸣器
I-SGPIO1/I-SGPIO2	Serial General Purpose I/O 插座
UID	Unit Identification 按钮
USB 0/1, 8/9, 14/15	背板 USB 接口 (Ports 0/1: USB 2.0, Ports 8/9: USB 3.0, Ports 14/15: USB 3.1)
USB 2/3, 4/5, 6/7 USB 10/11, 12/13	前面板 USB 接口 (Ports 2/3, 4/5, 6/7: USB 2.0, Ports 10/11 and 12/13: USB 3.0)

指示灯 (LED Indicators)

指示灯	说明	颜色及表示
LED1	电源指示灯	绿：Power On
LED3	备用电源指示灯	On: Power On
LED4	UID 指示灯	蓝：Unit Identified
LEDM1	BMC HeartBeat 指示灯	绿灯闪烁：BMC Normal

注意：有关跳线/连接器/指示灯的更详尽信息，可参看 Supermicro X11SAE/X11SAE-F 主板用户手册第一章。

跳线

跳线 (Jumpers)

跳线	说明	默认值
JBR1	BIOS 恢复开关	Pins 1-2 (正常)
JBT1	清除 CMOS	Open (正常)
JHD_AC1	启用 High Definition Audion	Open (启用)
JI²C1/JI²C2	PCI-E 插槽的 SMB 插座	Both Pins 2-3 (禁用)
JPAC1	启用 Audio	Pins 1-2 (启用)
JPB1	启用 BMC	Pins 1-2 (启用)
JPG1	板载启用 VGA	Pins 1-2 (启用)
JPL1/JPL2	启用/禁用 LAN1/LAN2	Pins 1-2 (启用)
JPME2	ME Manufacturing Mode	Pins 1-2 (正常)
JWD1	Watch Dog	Pins 1-2 (重设)

处理器支持

本主板 (X11SAE/X11SAE-F) 支持 Intel® E3-1200 V5、第六代 Core i3/i5/i7、Pentium 以及 Celeron 处理器。

系统内存支持

系统内存支持 DDR4 ECC/Non-ECC UDIMM 技术，容量最高可达 64GB，内存频率为 2133MHz。

安装 DIMM 内存

请遵守下列顺序安装内存模块：DIMMA2 (通道A，插槽2)，DIMMB2 (通道B，插槽2)，DIMMA1 (通道A，插槽1)，DIMMB1 (通道B，插槽1)。先将内存安装于蓝色插槽 (插槽)。内存插槽位置请见本指南提供的主板组件配置图。

Recommended Population (Balanced)				
DIMMA2	DIMMB2	DIMMA1	DIMMB1	Total Memory
2GB DIMM	2GB DIMM			4GB
2GB DIMM	2GB DIMM	2GB DIMM	2GB DIMM	8GB
4GB DIMM	4GB DIMM			8GB
4GB DIMM	4GB DIMM	4GB DIMM	4GB DIMM	16GB
8GB DIMM	8GB DIMM			16GB
8GB DIMM	8GB DIMM	8GB DIMM	8GB DIMM	32GB
16GB DIMM	16GB DIMM			32GB
16GB DIMM	16GB DIMM	16GB DIMM	16GB DIMM	64GB

背板输出/入接置连接埠

1. USB 14 (3.1) 接口	7. LAN1 局域网接口	13. SPDIF Out
2. USB 15 (3.1) 接口	8. USB 8 (3.0) 接口	14. Surround Out
3. VGA 接口	9. USB 9 (3.0) 接口	15. Center/LFE Out
4. DVI 接口	10. LAN2 局域网接口	16. Mic In
5. DisplayPort 接口	11. USB 0 (2.0) 接口	17. Line Out
6. HDMI 接口	12. USB 1 (2.0) 接口	18. Line In

注意：有关内存/主板/处理器的更详尽信息，可参看 Supermicro X11SAE/X11SAE-F 主板用户手册第二章。

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