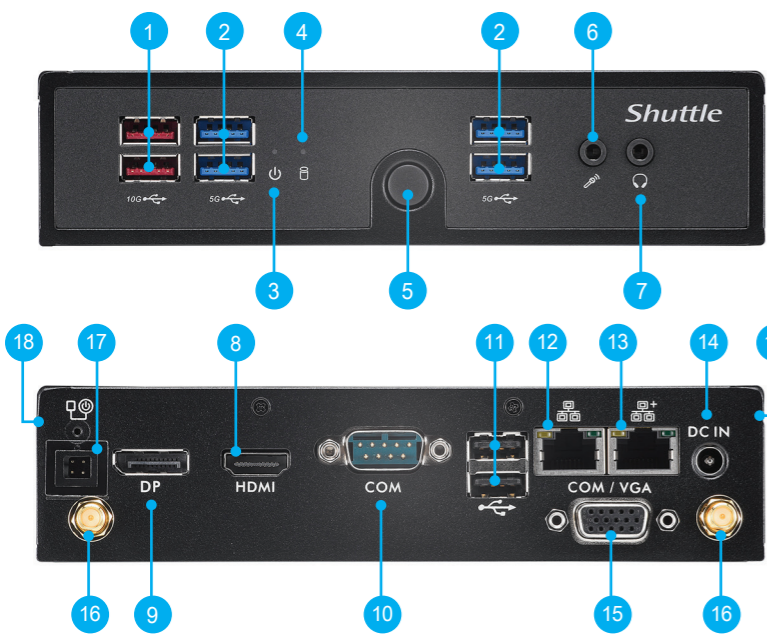


More information on this product can be found at: <https://bit.ly/DS50USERIES>
 更多本產品資訊，請查閱：<https://bit.ly/DS50USERIES>
 Weitere Informationen zu diesem Produkt finden Sie unter: <https://bit.ly/DS50USERIES>
 Pour plus d'informations sur ce produit, visitez: <https://bit.ly/DS50USERIES>

Puede encontrar más información sobre este producto en: <https://bit.ly/DS50USERIES>
 本製品の詳細な情報については、次のURLより確認頂けます。<https://bit.ly/DS50USERIES>
 Для получения дополнительной информации об этом продукте перейдите по ссылке: <https://bit.ly/DS50USERIES>
 更多本产品信息，请访问：<http://bit.ly/DS50USERIES>

Product Overview

產品外觀 \ Produktübersicht \ Présentation du produit \ Resumen del producto \ 製品概要 \ Обзор продукта \ 产品外观



1. USB 3.2 Gen 2 Ports
2. USB 3.2 Gen 1 Ports
3. Power LED
4. Hard Disk Drive LED
5. Power Button
6. MIC-in
7. Headphones
8. HDMI Port
9. DisplayPort
10. COM Port (RS232/RS422/RS485) (BIOS Setting)
11. USB 2.0 Ports
12. Giga LAN Port
13. 2.5Giga LAN Port
14. Power Jack (DC IN)
15. COM/VGA Port (RS232 only) (Option)
16. Connector for WLAN antenna
17. External Power SW & Clear CMOS
18. Kensington® Lock Hole

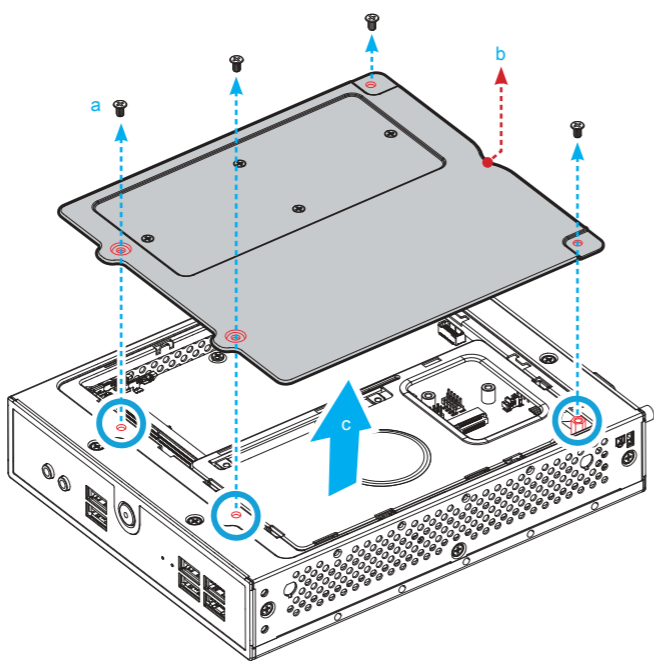
Hardware Installation

硬體安裝 \ Hardware Installation \ Installation du matériel \ Instalación de hardware
 ハードウェアのインストール \ Установка оборудования \ 硬件安装

A. Begin Installation

⚠ For safety reasons, please ensure that the power cord is disconnected before opening the case.

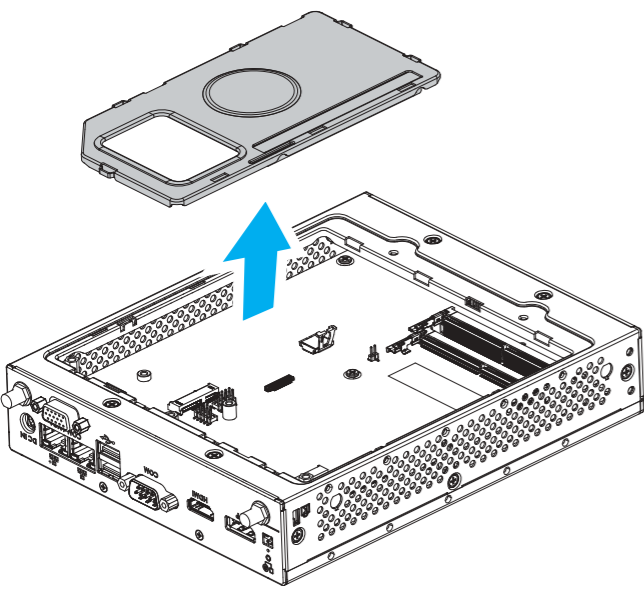
1. As shown, unscrew the four screws of the chassis cover and remove the cover.



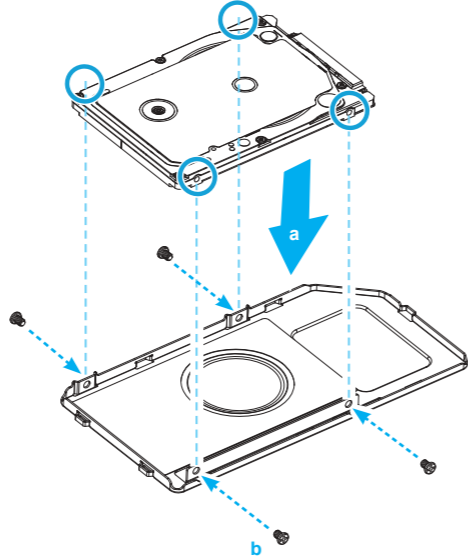
⚠ The product's colour and specifications may vary from the actually shipped product.

B. HDD or SSD Installation

1. As shown, remove the rack.

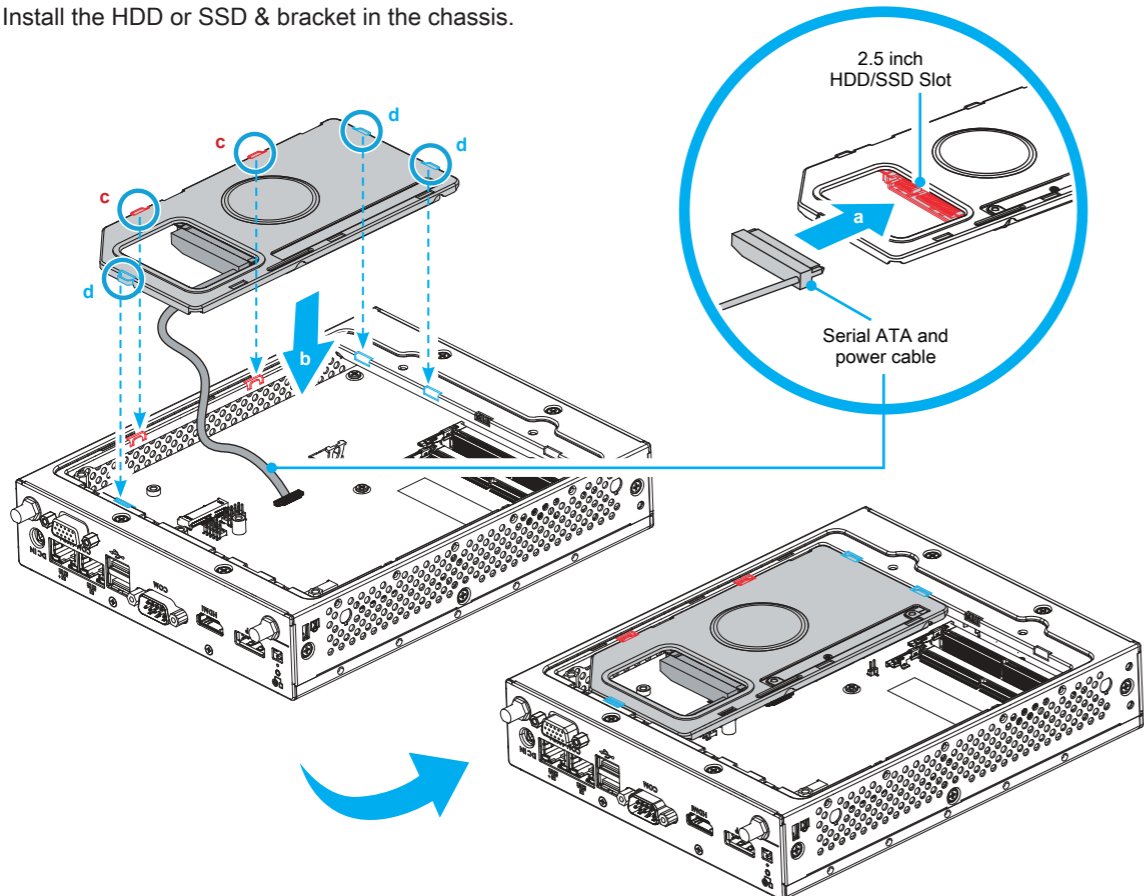


2. Mount the HDD or SSD into the bracket with four screws.



3. Connect the Serial ATA and power cable to the HDD or SSD.

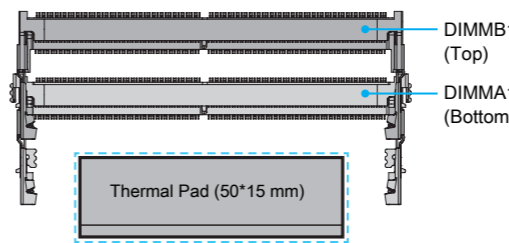
4. Install the HDD or SSD & bracket in the chassis.



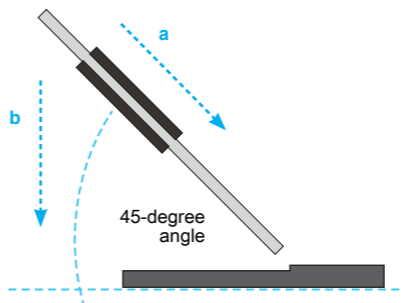
C. Memory Module Installation

⚠ This motherboard does only support 1.1 V DDR5 SO-DIMM memory modules.

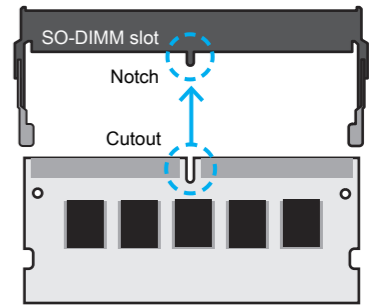
1. Locate the SO-DIMM and paste the thermal pad (50*15 mm) on the motherboard, which can effectively reduce its temperature.
2. Install the 1st memory module into the DIMMA1 slot.



3. Gently insert the module into the slot in a 45-degree angle.

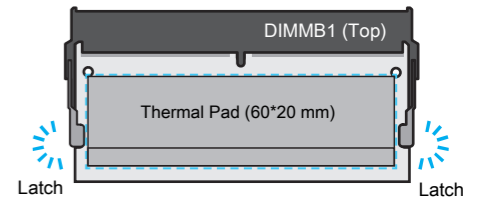


4. Align the notch of the memory module with the one of the relevant memory slot.



5. Carefully push down the memory module until it snaps into the locking mechanism and put the mylar back in place.

6. Install the 2nd memory module into the DIMMB1 slot (proceed with steps B3 to B5) and paste the thermal pad, as shown.

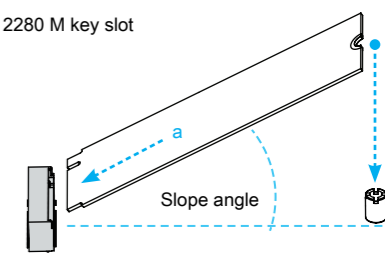
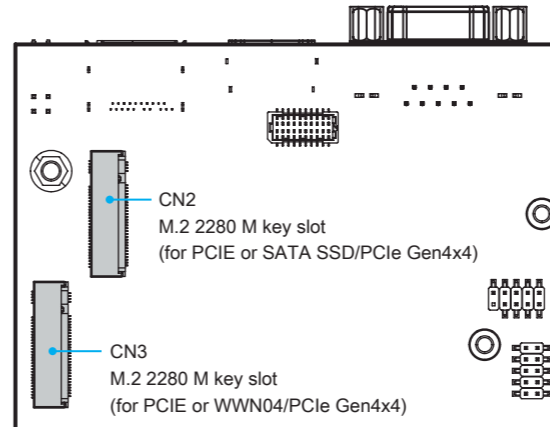


D. M.2 Device Installation

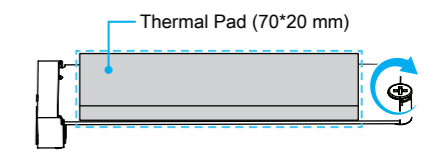
➤ Notice for M.2 slots: When CN3 is occupied by NVME device, CN2 only support SATA interface.

1. Locate the M.2 key slots on the motherboard.

➤ M.2 2280 M key slot



2. Install the M.2 device into the M.2 slot and secure with the screw.

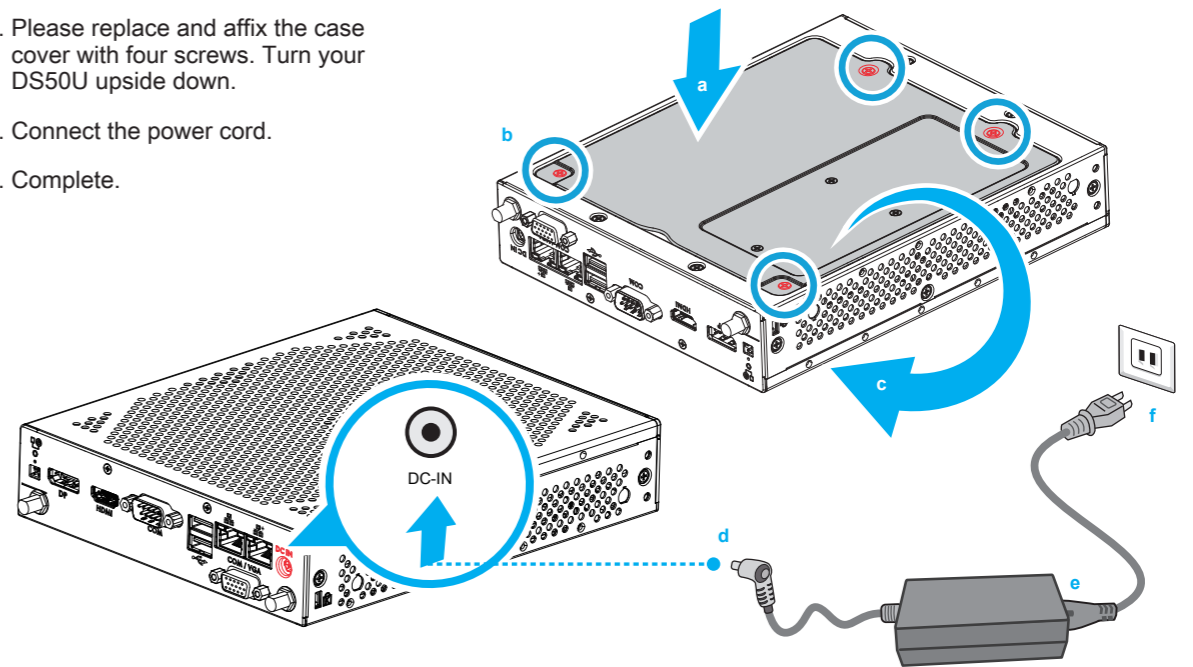


⚠ DS50U only support one NVME device.

⚠ Pasting a thermal pad on the M.2 SSD can effectively reduce its temperature.

E. Complete

1. Please replace and affix the case cover with four screws.
2. Connect the power cord.
3. Complete.



⚠ Please press the "Del" key while booting to enter BIOS. Here, please load the optimised BIOS settings.
 Operation Position: Please make sure to use either the supplied feet or the VESA mount.

Safety Information

安全資訊 \ Sicherheitshinweise \ Informations de sécurité \ Información de seguridad
 安全に関する情報 \ Информация о безопасности \ 安全信息

⚠ Incorrectly replacing the battery may damage this computer. Replace only with the same or equivalent as recommended by Shuttle.
 Dispose of used batteries in accordance with the laws of your country.

更換電池方式錯誤可能會損壞本電腦以及引發爆炸、火災或其他危險。
 僅能依Shuttle的建議，以相同或同等的電池更換。請根據您所在國家/地區的法律規定處理廢電池。
 Das unkorrekte Austauschen der Batterie kann diesen Computer beschädigen. Ersetzen Sie die Batterie nur durch den gleichen Typ oder ein gleichwertiges, von Shuttle empfohlenes Modell. Entsorgen Sie gebrauchte Batterien gemäß den gesetzlichen Vorschriften in Ihrem Land.
 Ne pas remplacer correctement la pile peut endommager l'ordinateur. Remplacez-la uniquement par un modèle identique ou un équivalent comme recommandé par Shuttle. Éliminez les piles usagées conformément à la législation en vigueur dans votre pays.
 La sustitución incorrecta de la batería puede dañar este equipo. Sustituya la batería únicamente por una igual o equivalente recomendada por Shuttle. Elimine las pilas usadas de acuerdo con los requisitos legales de su país.
 Батарею не следует заменять неправильно. Замена должна соответствовать стандарту производителя Shuttle или быть идентичной предыдущей. Утилизируйте использованные батареи в соответствии с законодательством вашей страны.
 更換電池方式錯誤可能會損壞本電腦。僅能依 Shuttle 的建議，以相同或同等的電池更換。請根據您所在國家/地區的法律規定處理廢電池。

注意：允許產品使用的最高環境溫度為 40°C。

注意：僅適用於在非熱帶氣候條件下安全使用，在熱帶氣候條件下使用時，可能有安全隱患。

注意：僅適用於海拔 2000m 以下安全使用，在海拔 2000m 以上使用時，可能有安全隱患。



All bundled parts, power cord included, shall not be used without this product.

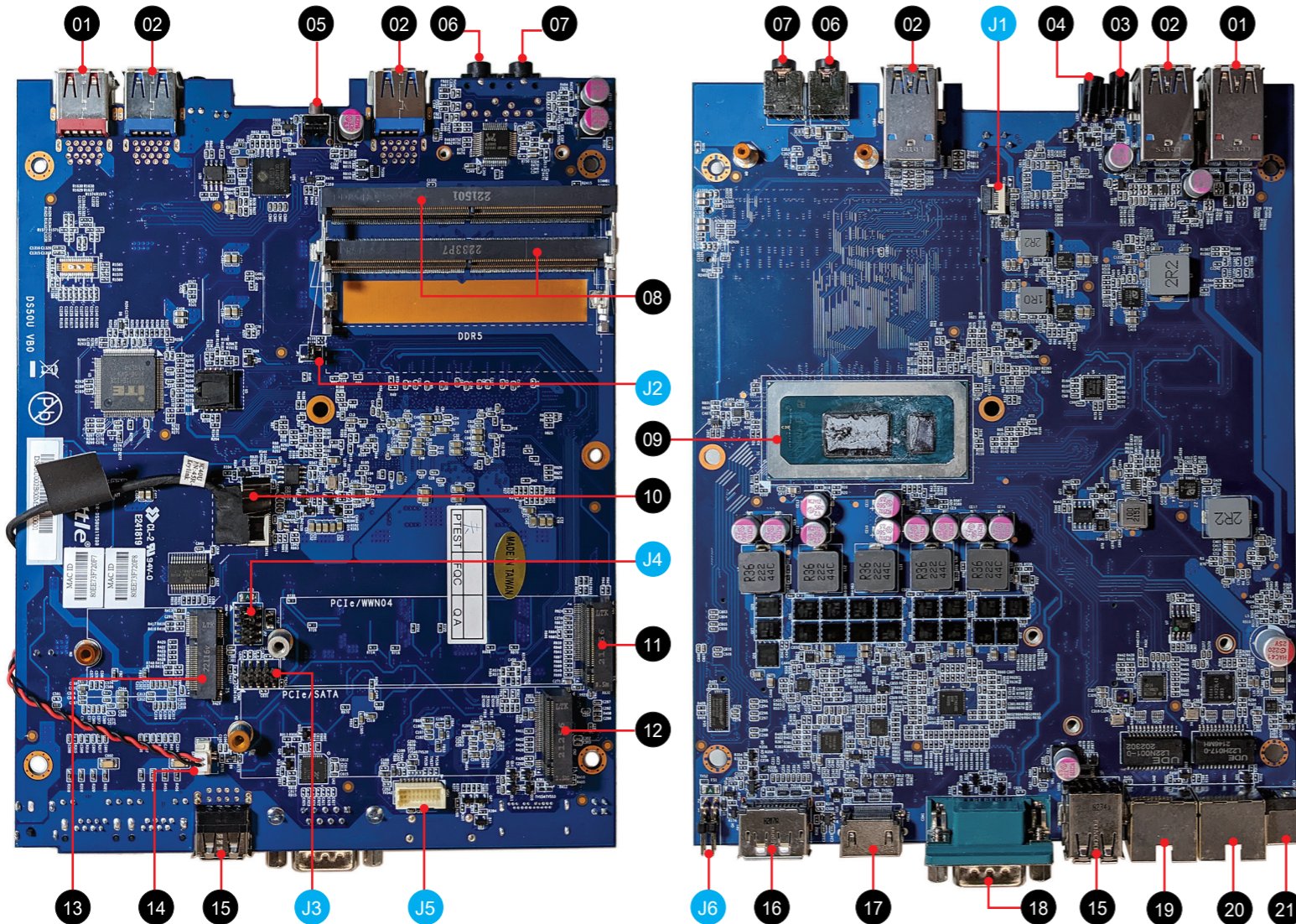
電源ケーブル等、すべての付属品は本機以外ではご使用になれません。

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

CE This device meets the requirements for the EU conformity in accordance to the currently valid EU directives.
 Dieses Produkt erfüllt die Anforderungen für die EU-Konformität entsprechend der aktuell geltenden EU-Richtlinien.
 Ce produit répond aux exigences de la conformité UE suivant les directives européennes actuellement en vigueur.

WARNING

THIS PRODUCT CONTAINS A BUTTON BATTERY
 If swallowed, a lithium button battery can cause severe or fatal injuries within 2 hours.
 Keep batteries out of reach of children.
 If you think batteries may have been swallowed or placed inside any part of the body, seek immediate medical attention.



- 01. USB 3.2 Gen 2 Ports
USB 3.2 Gen 2 連接埠
USB 3.2 Gen 2-Anschlüsse
Prises USB 3.2 Gen 2
Puertos USB 3.2 Gen 2
USB 3.2 Gen 2 ポート
USB 3.2 Gen 2 порты
USB 3.2 Gen 2 端口
- 02. USB 3.2 Gen 1 Ports
USB 3.2 Gen 1 連接埠
USB 3.2 Gen 1-Anschlüsse
Prises USB 3.2 Gen 1
Puertos USB 3.2 Gen 1
USB 3.2 Gen 1 ポート
USB 3.2 Gen 1 порты
USB 3.2 Gen 1 端口
- 03. Power LED
電源指示燈
Betriebsanzeige-LED
Indicateur alimentation
LED de encendido
電源 LED
LED-индикатор питания
電源指示灯
- 04. Hard Disk Drive LED
硬碟指示燈
Festplatten-LED
Indicateur disque dur
Diodo LED del disco duro
ハードディスクドライブ LED
LED-индикатор жесткого диска
硬盘指示灯
- 05. Power Button
電源按鈕
Ein-/Aus-Button
Bouton d'alimentation
Botón de encendido
電源スイッチ
Кнопка питания
電源按钮
- 06. MIC-in
麥克風插孔
Mikrofon-Eingang
Prise micro
Micrófono
Майк
Гнездо для микрофона
麦克风插孔
- 07. Headphones
耳機孔
Kopfhörer-Ausgang
Prise casque
Auriculares
イヤホン
Гнездо для наушников
耳机孔
- 08. DDR5 SO-DIMM Slots
DDR5 SO-DIMM 插槽
DDR5 SO-DIMM Steckplätze
Slot mémoire SO-DIMM DDR5
Zócalo de DDR5 SO-DIMM
DDR5 SO-DIMM スロット
Слот памяти DDR5 SO-DIMM
DDR5 SO-DIMM 插槽
- 09. Processor
處理器
Procesador
Proceseur
Процессор
Процессор
处理器
- 10. SATA 3.0 6Gb/s connector
SATA 3.0 6Gb/s 插槽
SATA 3.0-Anschlüsse (6 Gb/s)
Connecteurs SATA 3.0 6Gb/s
Base de conexiones SATA 3.0 6Gb/s
SATA 3.0 6Gb/s コネクタ
Разъем SATA 3.0 6 Гбит/с
SATA 3.0 6Gb/s 接口
- 11. M.2 2280 M key slot
(for PCIe or WWN04/PCIe Gen4x4)
M.2 2280 M key 插槽
M.2-2280 (M) Steckplatz
Emplacement M.2 2280 M
Ranura M.2 2280 M
M.2 2280 M キースロット
Слот M.2 2280 M ключ
M.2 2280 M key 插槽
- 12. M.2 2280 M key slot
(for PCIe or SATA SSD/PCIe Gen4x4)
M.2 2280 M key 插槽
M.2-2280 (M) Steckplatz
Emplacement M.2 2280 M
Ranura M.2 2280 M
M.2 2280 M キースロット
Слот M.2 2280 M ключ
M.2 2280 M key 插槽
- 13. M.2 2230 E key Slot
M.2 2230 E key 插槽
M.2-2230 (E) Steckplatz
Emplacement M.2 2230 E
Ranura M.2 2230 E
M.2 2230 E キースロット
Слот M.2 2230 E ключ
M.2 2230 E key 插槽
- 14. Battery Connector
電池插座
Anschluss für die Batterie
Connecteur de pile
Conector de batería
バッテリー コネクタ
Разъем для батареи
電池插座
- 15. USB 2.0 Ports
USB 2.0 連接埠
USB 2.0-Anschlüsse
Prises USB 2.0
Puertos USB 2.0
USB 2.0 ポート
USB 2.0 порты
USB 2.0 端口
- 16. DisplayPort
DisplayPort 連接埠
DisplayPort-Anschluss
Prise DisplayPort
DisplayPort
ディスプレイポート
DisplayPort 端口
- 17. HDMI Port
HDMI 連接埠
HDMI-Anschluss
Prise HDMI
Puerto HDMI
HDMI ポート
HDMI порт
HDMI 端口
- 18. COM Port
COM 插座
COM-Anschluss
Prise COM
Puerto COM
COM ヘッド
COM 埠
COM 接头
- 19. Giga LAN Port
Giga 網路連接埠
Gigabit LAN Port
Port LAN Gigabit
Puerto LAN Gigabit
ギガビットLANポート
Giga LAN порт локальной сети
Giga LAN 連接埠
- 20. 2.5Giga LAN Port \ 2.5Giga 網路連接埠 \ 2.5G LAN Port
Port LAN 2.5 Gigabit \ Puerto LAN 2.5G \ 2.5ギガビットLANポート
RU 2,5-гигабитный сетевой порт \ 2.5Giga LAN 連接埠
- 21. Power jack (DC IN) \ DC 電源連接埠 \ DC-Stromanschluss
Prise alimentation DC \ Conexión de la fuente de alimentación (CC)
DC電源 埠 \ Гнездо для подключения питания (DC IN)
電源插孔 (直流電輸入)

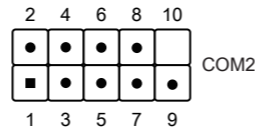
Jumper Settings

Jumper 設定 \ Jumper-Einstellungen \ Réglages des cavaliers \ Configuración de los puentes \ ジャンパー設定 \ Настройки преключателя \ Jumper 設定

J1 Connector for SD Card Reader Daughter Board (CR005)
SD 讀卡機子板連接埠 (CR005)
Anschluss für die SD-Cardreader-Tochterplatine (CR005)
Connecteur pour l'adaptateur de lecteur de carte SD (CR005)
Conexión para la extensión del lector de tarjetas SD (CR005)
SDカードリーダーのドーターボード (CR005)用コネクタ
Разъем для дочерней платы устройства чтения SD карт памяти (CR005)
SD 卡片阅读机子板端口 (CR005)

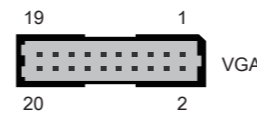
SD1	
Pin	Signal Name
1	+3.3VS
2	+3.3VS
3	GND
4	USB_D-
5	USB_D+
6	GND

J3 COM 2 Port \ COM 2 插座
COM 2-Ausgang \ Port COM 2
Puerto 2 COM \ COM 2 埠
COM 2-порт \ COM 2 接头



COM2 (RS232)	
Pin	Signal Name
1	DCD
2	RXD
3	TXD
4	DTR
5	GND
6	DSR
7	RTS
8	CTS
9	RI
10	NULL

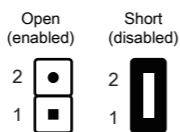
J5 VGA connector \ VGA 插座
VGA-Anschluss \ Connecteur VGA
Conector del VGA \ VGA コネクタ
VGA разъем \ VGA 接头



VGA1							
Pin	Signal Name	Pin	Signal Name	Pin	Signal Name	Pin	Signal Name
1	GND	2	GND	3	SCL	4	GND
5	SDA	6	GND	7	GND	8	GND
9	VSYNC	10	GND	11	HSYNC	12	GND
13	GND	14	GND	15	BOUT	16	+5V
17	GOUT	18	+5V	19	ROUT	20	+5V

J2 AC Back Auto Power ON
回電自動開啟
Automatisches Einschalten bei Spannungsversorgung
Démarrage automatique à la mise sous tension
Encendido automático con suministro de corriente
AC自動電源オン
Восстановление питания AC Авто включение
回电自动开启

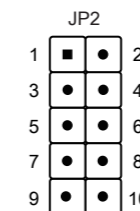
JP1	
Pin	Signal Name
1	AUTO_PWR_ON
2	GND



J4 COM 1 & COM 2 Power Switch
COM 1 & COM 2 電源開關
Konfiguration von COM 1 & COM 2
Gestion de l'alimentation des COM 1 & COM 2
COM 1 & COM 2 Enchufe Interruptor
COM 1 & COM 2 電源 スイッチ
Переключатель питания COM 1 & COM 2
COM 1 & COM 2 电源开关

COM PORT Pin 9 "Ring Indicator" (RI) configuration:

JP2			
COM1 (pin9)		COM2 (pin9)	
Short Pin	Function	Short Pin	Function
1-2 (Default)	RI1	3-4 (Default)	RI2
5-7	+5V	6-8	+5V
7-9	+12V	8-10	+12V



J6 External Power SW & Clear CMOS
外部電源及 Clear CMOS
Anschluss für externe Buttons: Ein/Aus und Clear CMOS
Connecteurs pour boutons d'alimentation et Clear CMOS déportés
Conexión para botones externos: On/Off y Clear CMOS
外部電源スイッチとCMOSクリア
Сброс CMOS и Внешняя кнопка питания
外部电源及 Clear CMOS

SW2			
Pin	Signal Name	Pin	Signal Name
1	PWR_SW_N	2	+5V
3	GND	4	RTC_RST_N

