

DeskMini GTX/RX Series

DeskMini GTX1060
DeskMini GTX1070
DeskMini GTX1080

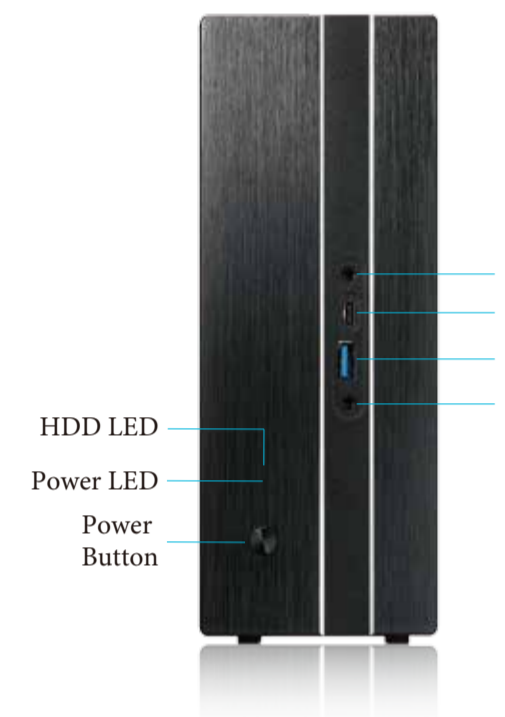
Quick Installation Guide



P/N: 19G067021000AK

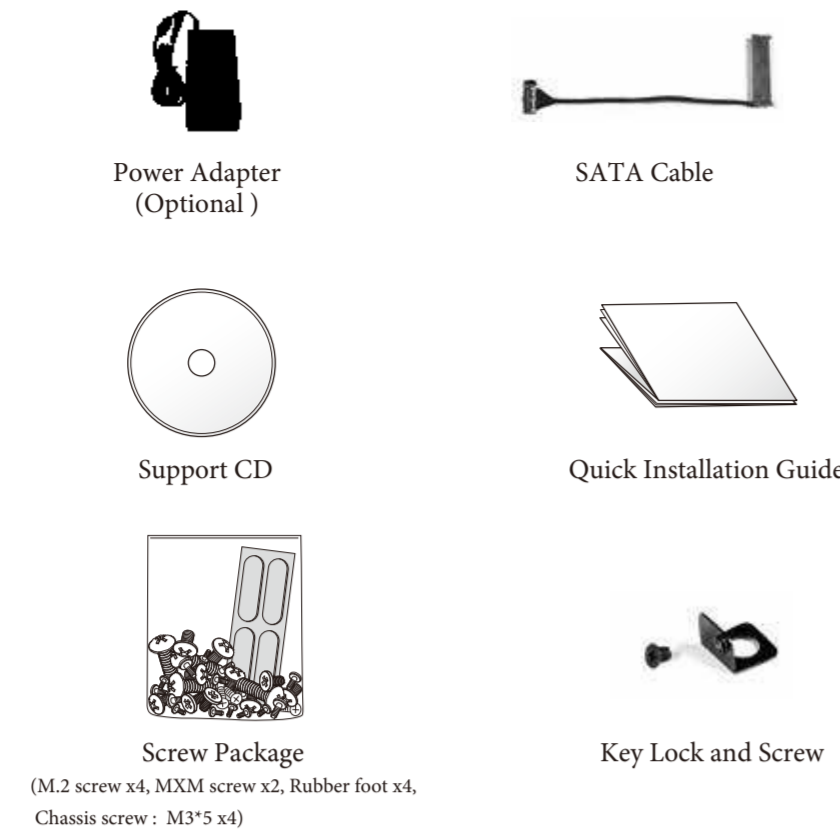
Front View

前视图 / Vorderansicht / Vue de face / Visione frontale / Vista frontal
Передний план / Vista frontal/ 전면보기/ 正面図



- HDD LED
- Power LED
- Power Button
- MIC-In
- USB 3.1 Gen2 Type-C Port
- USB 3.1 Gen2 Type-A Port
- Headphone/Headset

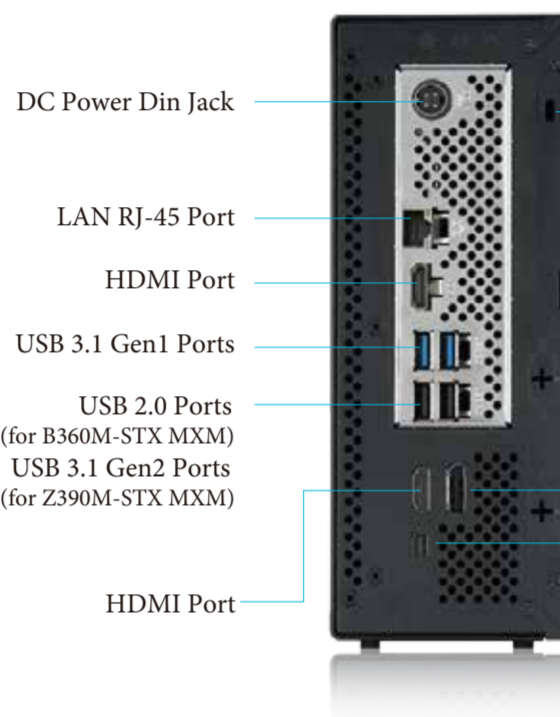
Package Contents



Screw Package
(M.2 screw x4, MXM screw x2, Rubber foot x4, Chassis screw : M3*5 x4)

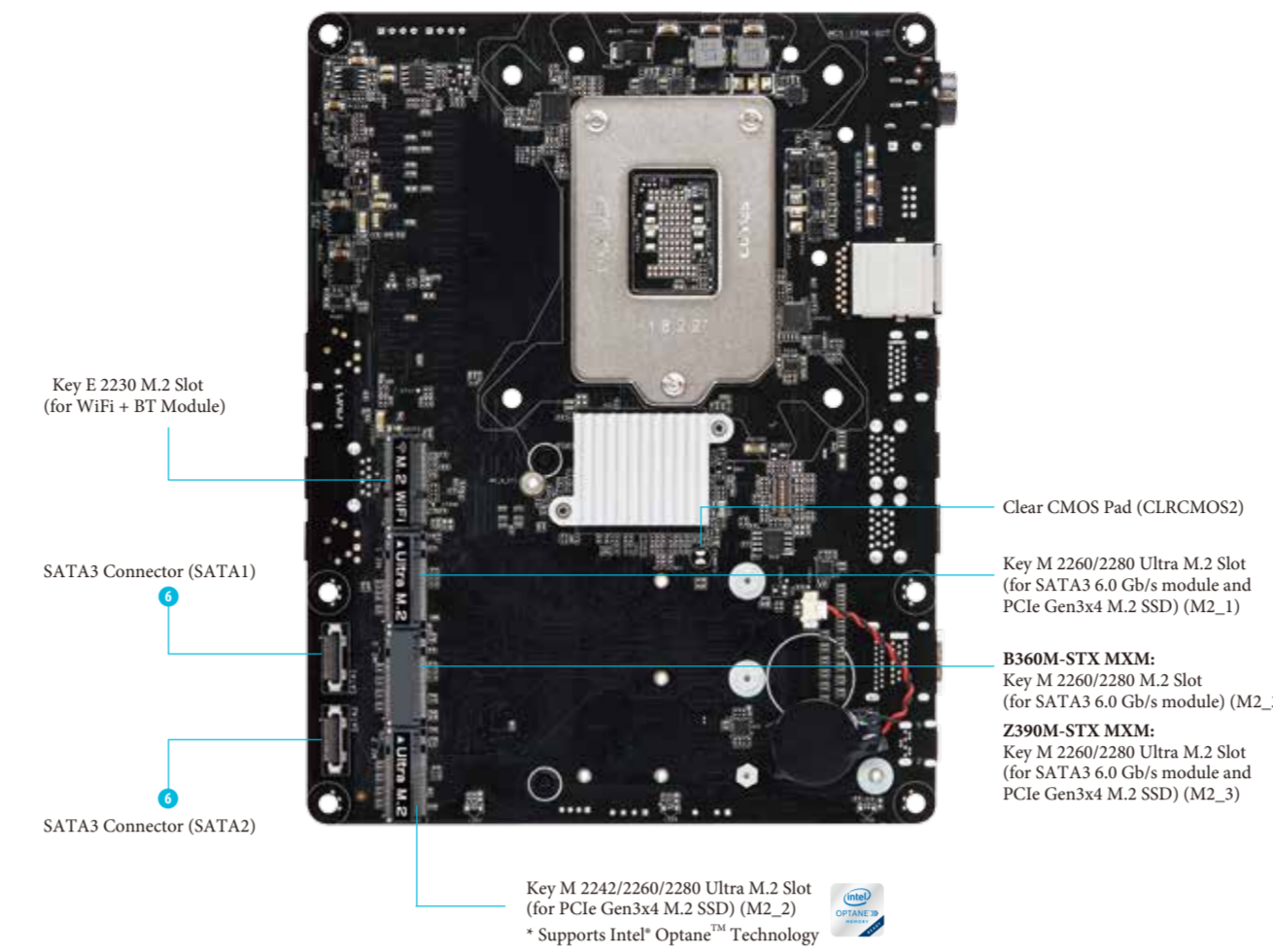
Rear View

後视图 / Rückansicht / Vue arrière / Retrovissore / Vista trasera / Вид сзади / Visão traseira / 배면도 / 背面図



- DC Power Din Jack
- LAN RJ-45 Port
- HDMI Port
- USB 3.1 Gen1 Ports
- USB 2.0 Ports (for B360M-STX MXM)
- USB 3.1 Gen2 Ports (for Z390M-STX MXM)
- HDMI Port
- Kensington Lock
- Key Lock
- DisplayPort
- Mini DisplayPort

Bottom View



- Key E 2230 M.2 Slot (for WiFi + BT Module)
- SATA3 Connector (SATA1)
- SATA3 Connector (SATA2)
- Clear CMOS Pad (CLR_CMOS2)
- Key M 2260/2280 Ultra M.2 Slot (for SATA3 6.0 Gb/s module and PCIe Gen3x4 M.2 SSD) (M2_1)
- B360M-STX MXM: Key M 2260/2280 Ultra M.2 Slot (for SATA3 6.0 Gb/s module) (M2_3)
- Z390M-STX MXM: Key M 2260/2280 Ultra M.2 Slot (for SATA3 6.0 Gb/s module and PCIe Gen3x4 M.2 SSD) (M2_3)
- Key M 2242/2260/2280 Ultra M.2 Slot (for PCIe Gen3x4 M.2 SSD) (M2_2)
- * Supports Intel® Optane™ Technology

Onboard Connectors

SATA3 Connector (SATA1, SATA2)

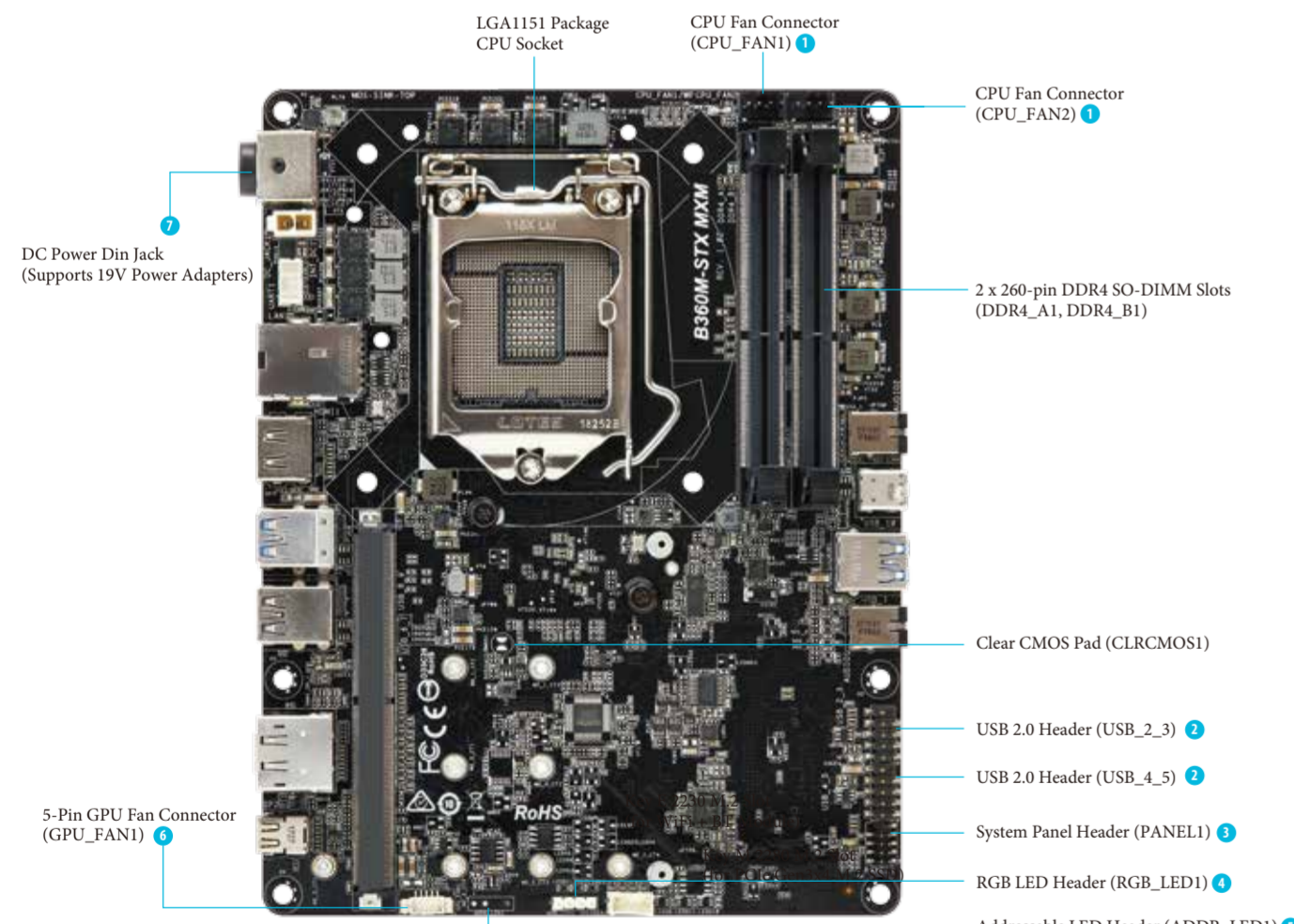
Connecting the SATA Cables to the SATA Connectors

| PIN | Signal Name | PIN | Signal Name |
|-----|-------------|-----|-------------|
| 1 | GND | 11 | N/A |
| 2 | LVDS_TX+ | 12 | 5V |
| 3 | LVDS_TX- | 13 | 5V |
| 4 | GND | 14 | 5V |
| 5 | GND | 15 | 5V |
| 6 | LVDS_RX- | 16 | 5V |
| 7 | LVDS_RX+ | 17 | N/A |
| 8 | GND | 18 | GND |
| 9 | GND | 19 | GND |
| 10 | GND | 20 | GND |

Motherboard Layout

主機板佈局圖 / Motherboard Layout / Carte mère / layout della scheda madre / tarjeta madre / Материнская плата / Dispositivo da placa mãe / 메인보드 레이아웃 / 마ザーボードのレイアウト

Top View



- DC Power Din Jack (Supports 19V Power Adapters)
- LGA1151 Package CPU Socket
- CPU Fan Connector (CPU_FAN1)
- CPU Fan Connector (CPU_FAN2)
- 2 x 260-pin DDR4 SO-DIMM Slots (DDR4_A1, DDR4_B1)
- Clear CMOS Pad (CLR_CMOS1)
- USB 2.0 Header (USB_2_3)
- USB 2.0 Header (USB_4_5)
- System Panel Header (PANEL1)
- RGB LED Header (RGB_LED1)
- Addressable LED Header (ADDR_LED1) (for Z390M-STX MXM only)
- 5-Pin GPU Fan Connector (GPU_FAN1)

*The picture shown here is for B360M-STX MXM. For Z390M-STX MXM, the USB 2.0 ports on the rear panel are changed to USB 3.1 Gen2 ports, an onboard addressable LED header is added and a heatsink is added.

Onboard Connectors

主機板元件 / Onboard-Anschlüsse / Connecteurs à bord / Connettori a bordo / Conectores a bordo / Исполняющие соединители / Conectores de bordo / 基板部品 / オンボードコネクタ

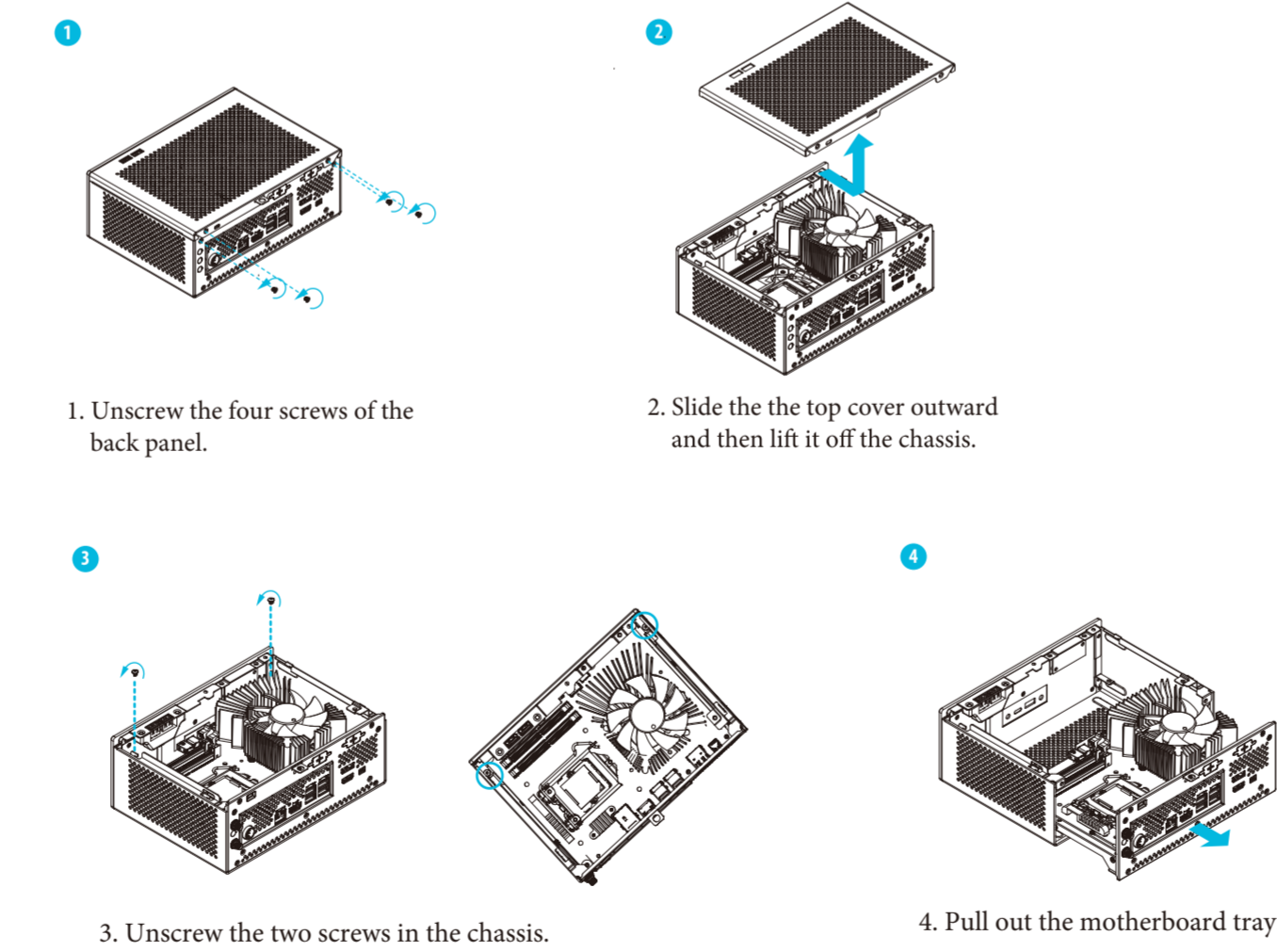
- CPU Fan Connectors (CPU_FAN1, CPU_FAN2)**
- System Panel Header (PANEL1)**
- Addressable LED Header (ADDR_LED1)**
- DC Power Din Jack**
- USB 2.0 Headers (USB_2_3, USB_4_5)**
- RGB LED Header (RGB_LED1)**
- 5-Pin GPU Fan Connector (GPU_FAN1)**

| PIN | Signal Name |
|-----|-------------|
| 1 | V0 (+) |
| 2 | V0 (+) |
| 3 | GND (-) |
| 4 | GND (-) |

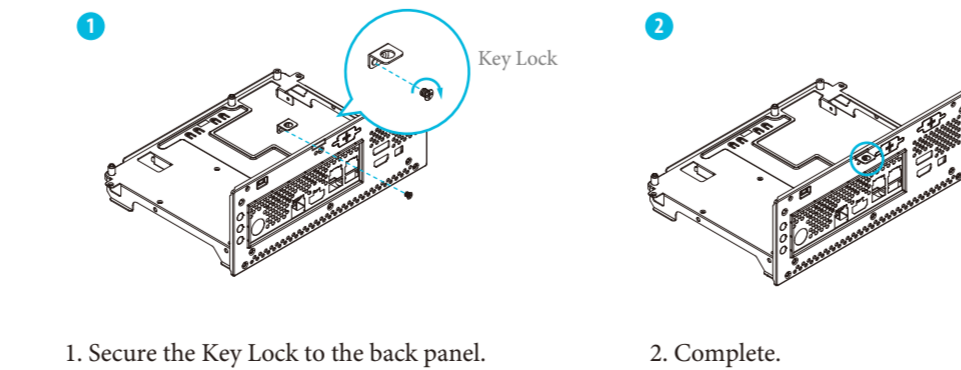
Hardware Installation

硬體安裝 / Hardware-Installation / Installation du matériel / Installazione hardware / Instalación de hardware / Установка оборудования / Instalação de hardware / 하드웨어 설치 / 하드웨어의インストール

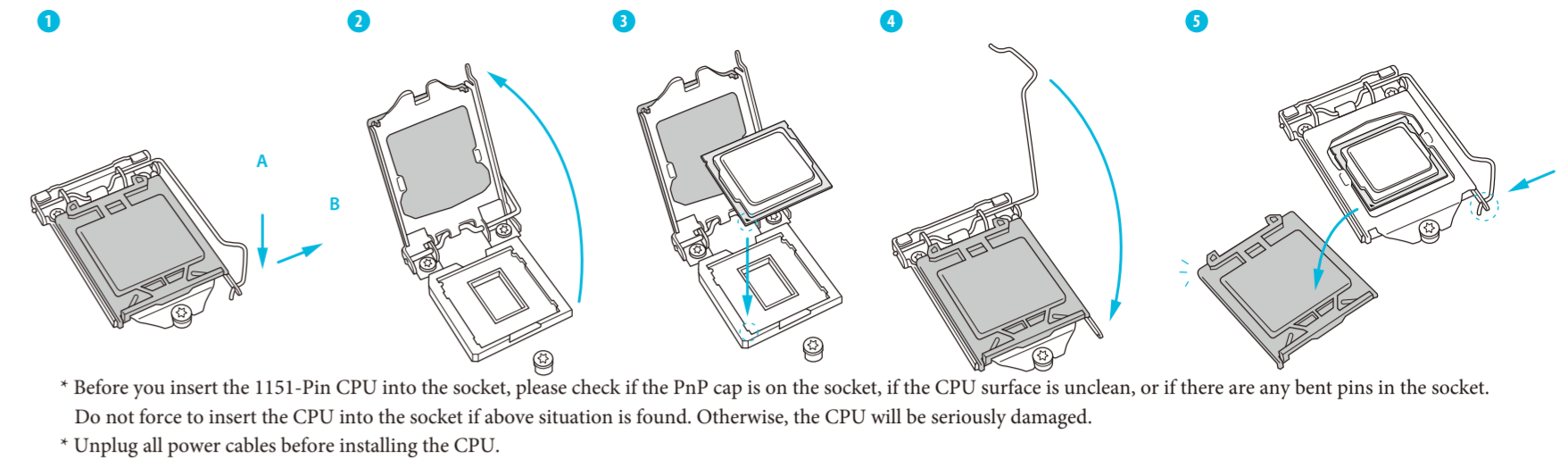
A Begin Installation



How to install the Key Lock

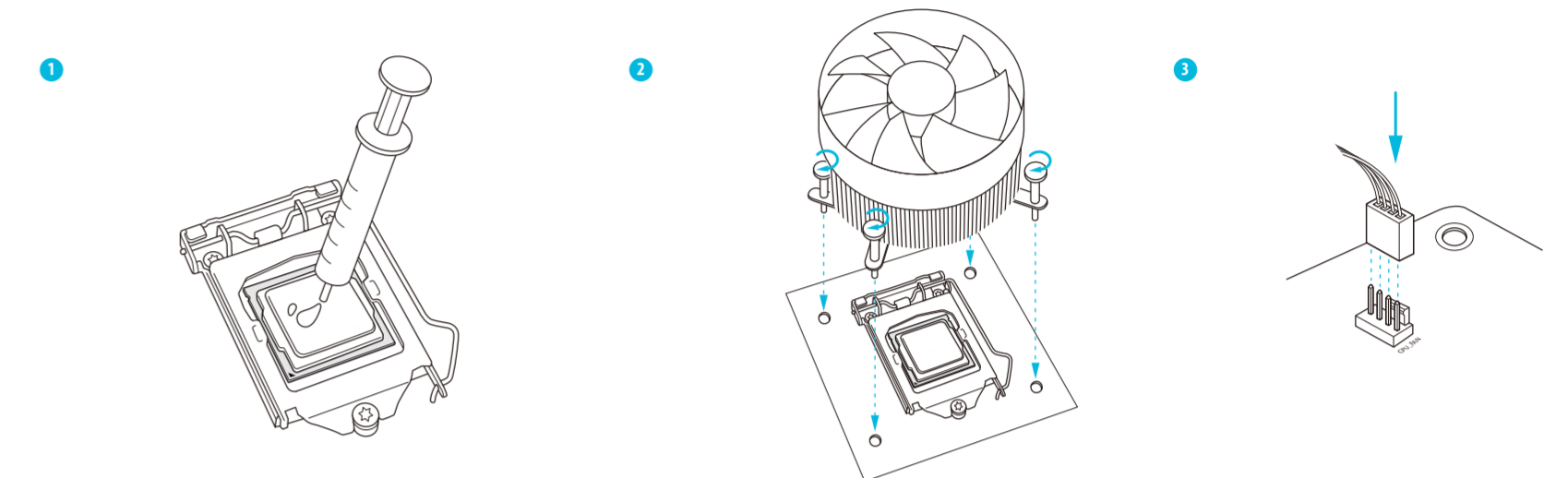


B Installing the CPU

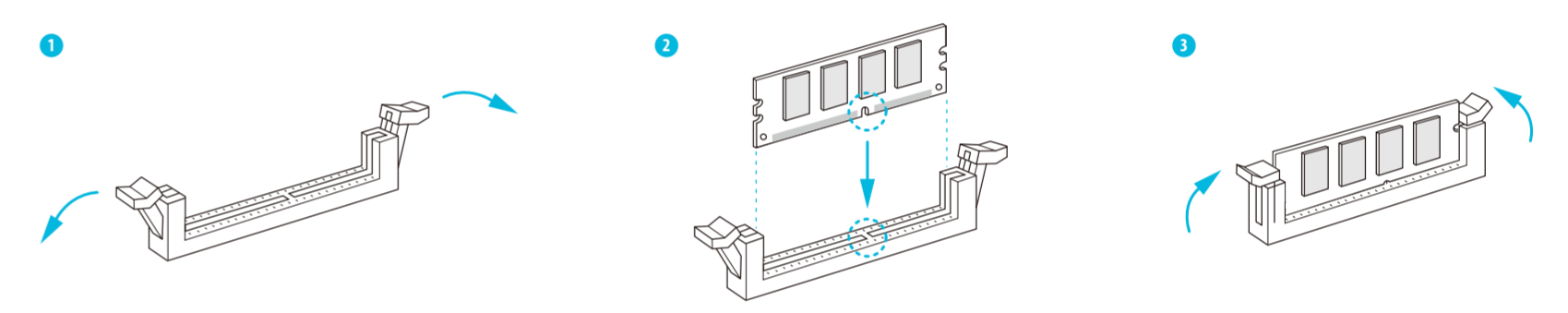


* Before you insert the 1151-Pin CPU into the socket, please check if the Pn/P cap is on the socket, if the CPU surface is unclean, or if there are any bent pins in the socket. Do not force to insert the CPU into the socket if above situation is found. Otherwise, the CPU will be seriously damaged.
* Unplug all power cables before installing the CPU.

C Installing the CPU Fan and Heatsink



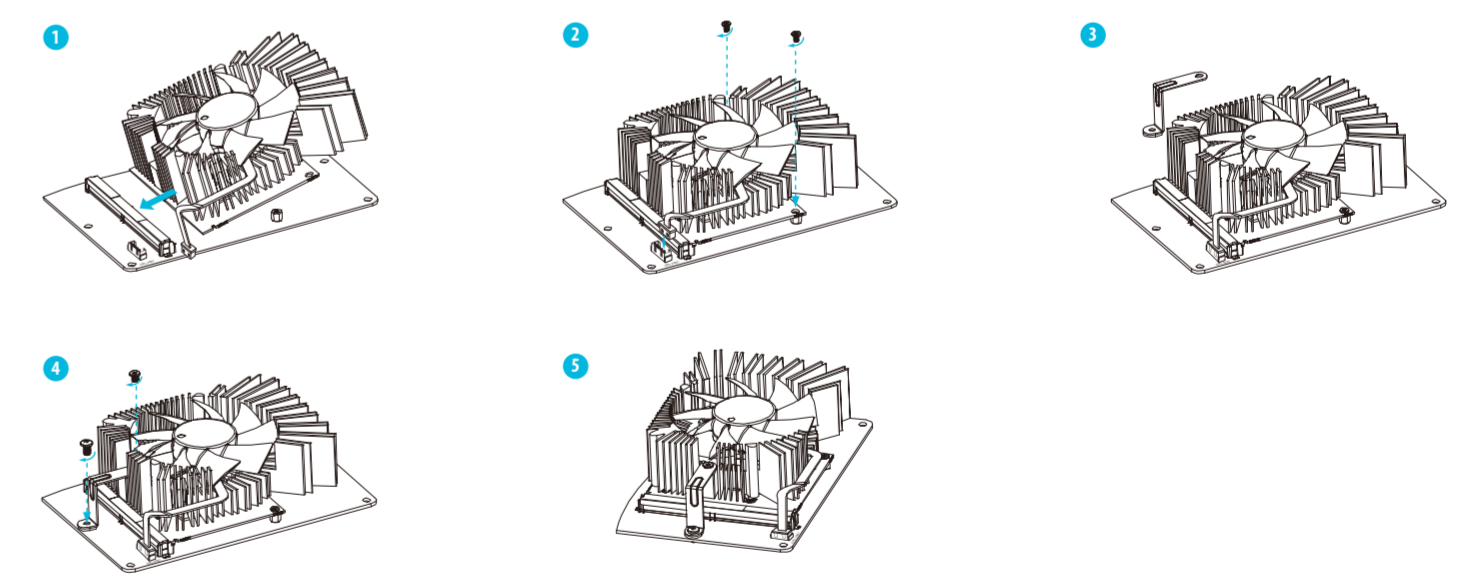
D Installing Memory Modules (DDR4 SO-DIMM)



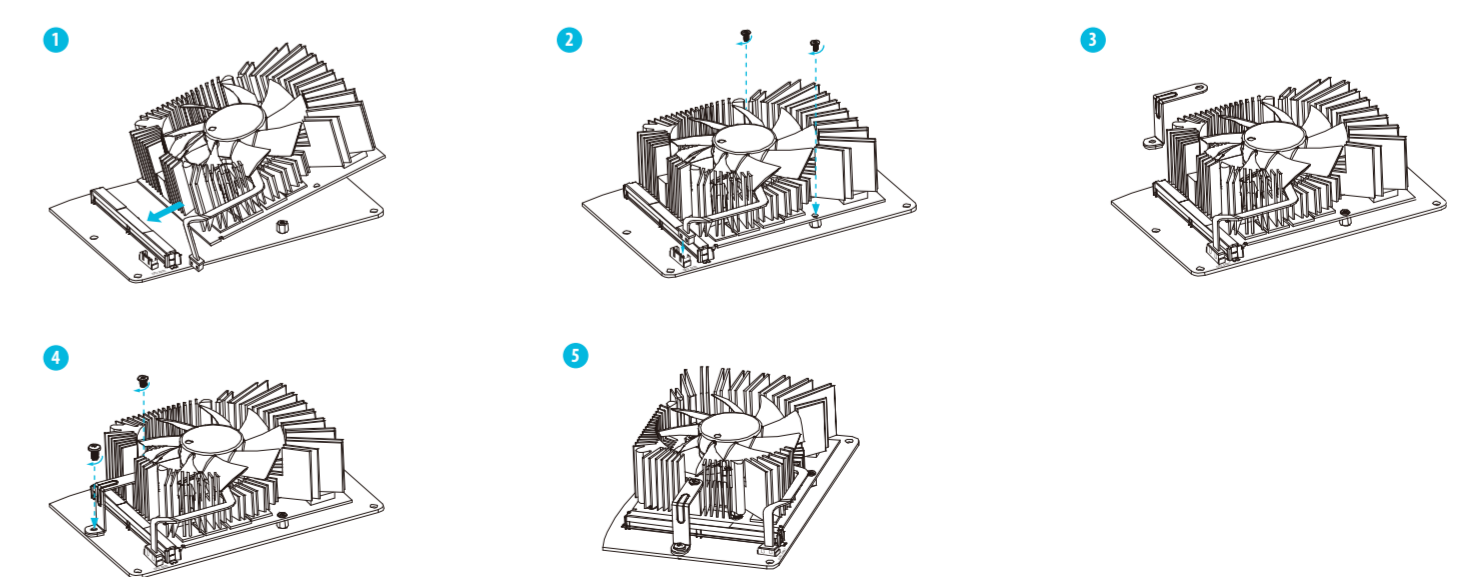
* It is not allowed to install a DDR, DDR2 or DDR3 memory module into a DDR4 slot; otherwise, this motherboard and SO-DIMM may be damaged.
* The SO-DIMM only fits in one correct orientation. It will cause permanent damage to the motherboard and the SO-DIMM if you force the SO-DIMM into the slot at incorrect orientation.

E Installing Mobile PCI Express Module (MXM)

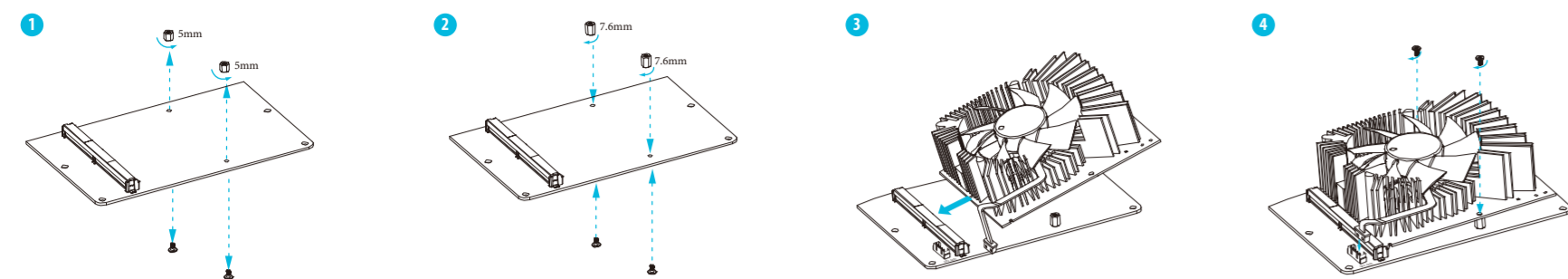
Installing a Type A MXM Card (70mm)



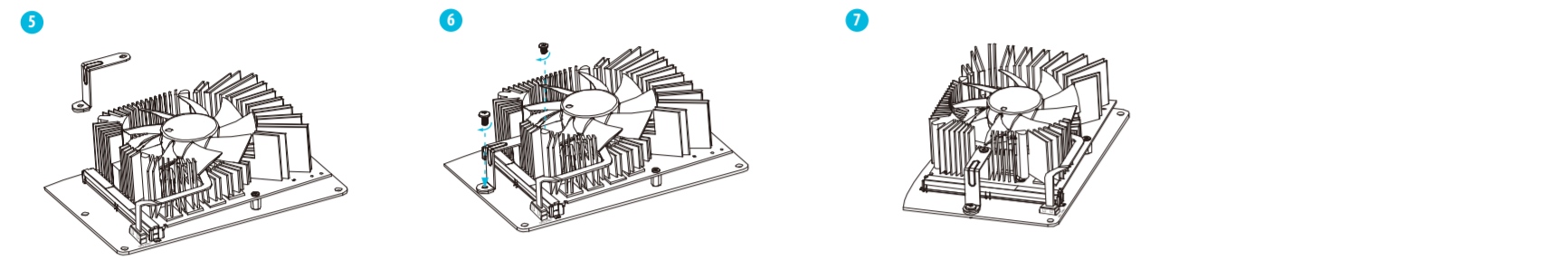
Installing a Type B MXM Card (105mm)



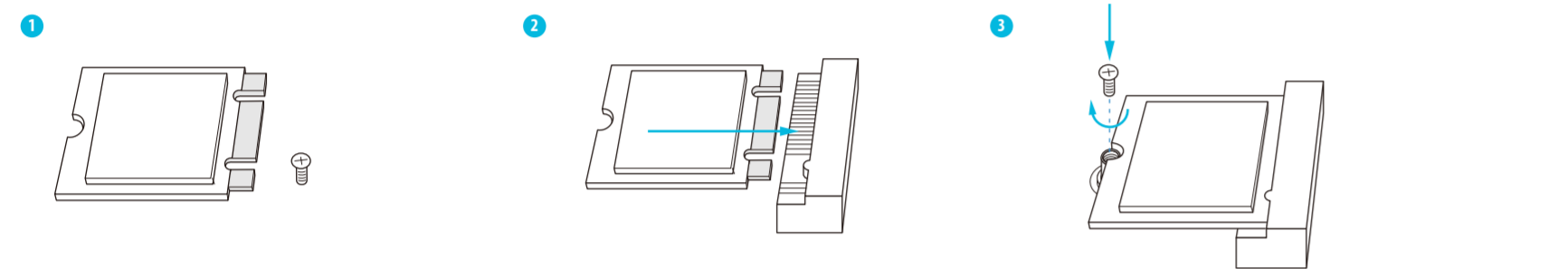
F Installing a Type B+ MXM Card (105mm-113mm)



*Before installing a Type B+ MXM card, please replace the 5mm standoffs with the 7.6mm standoffs.

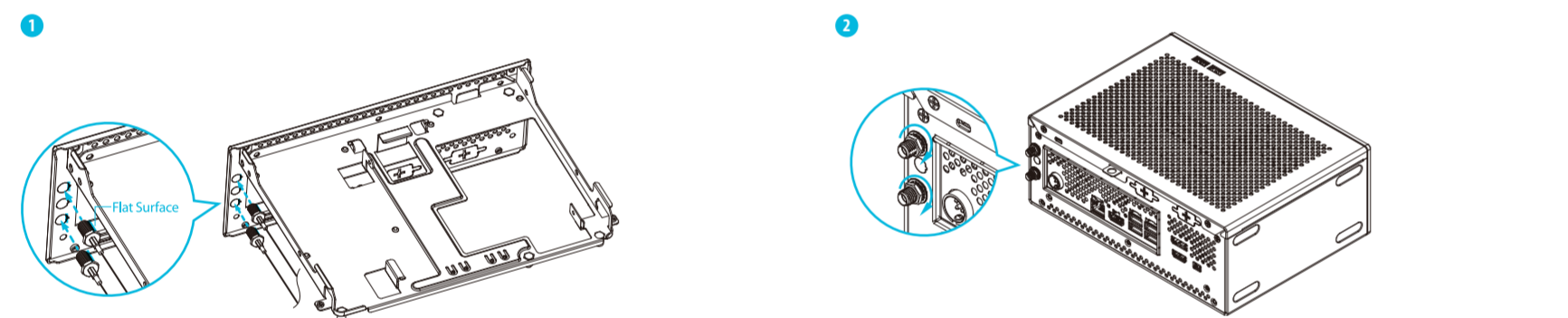


F Installing the WiFi Module

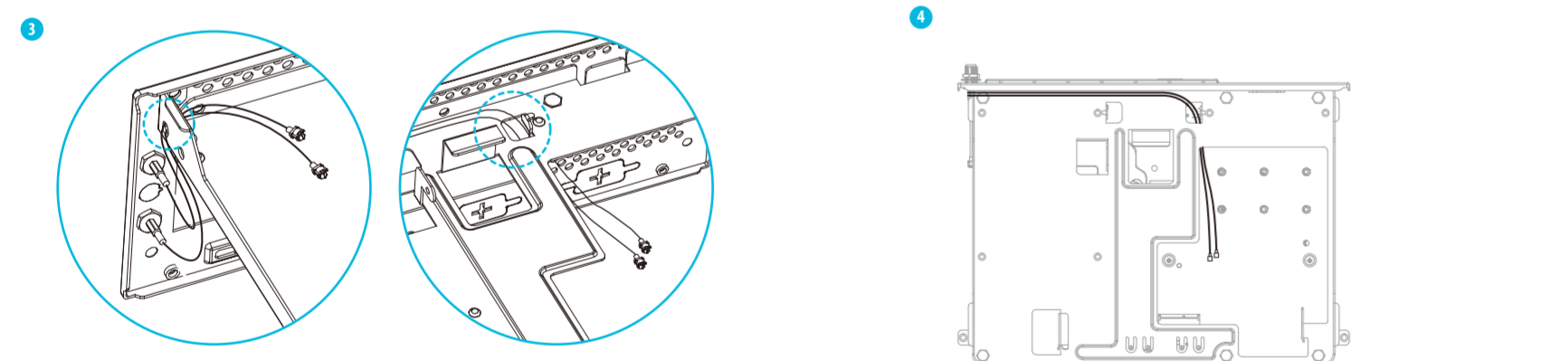


1. Prepare a type 2230 WiFi/BT module and the screw.
2. Align and gently insert the WiFi/BT module into the M.2 Socket (Key E) (M2_4).
*Please be aware that the module only fits in one orientation.
3. Tighten the screw to secure the WiFi module to the motherboard.

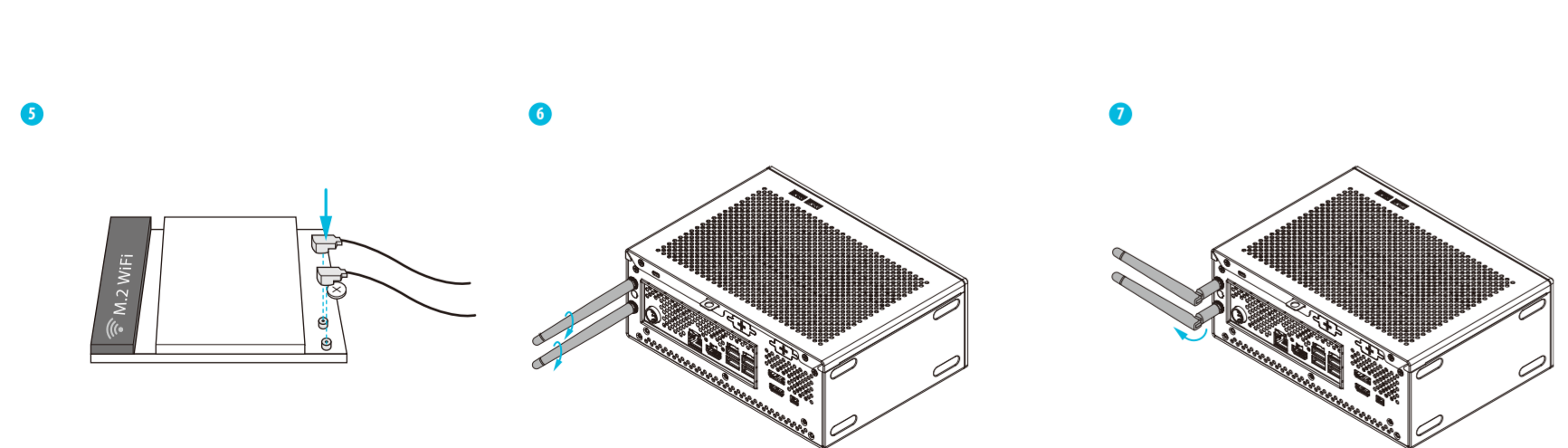
G Installing the WiFi Antennas



1. Insert the Wi-Fi Antenna Connectors to the antenna ports on the rear panel of the DeskMini GTX/RX series
*Please make sure to align the flat surface of Wi-Fi Antenna Connectors with the flat side of holes when inserting the connectors.
2. Fasten the screw nuts to secure the antenna connectors.



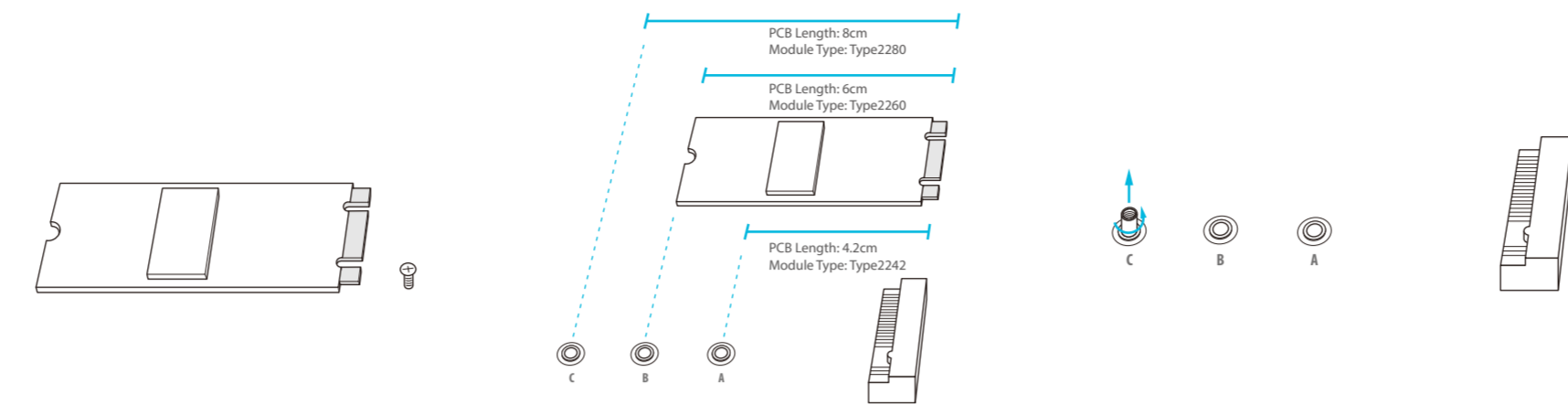
3. Insert the SMA Wi-Fi Antenna Cables to the designated holes on the drive mounting tray. Route the cables rightward as shown in the illustration above.
4. Make sure that the cable routing is organized as shown in the illustration above.



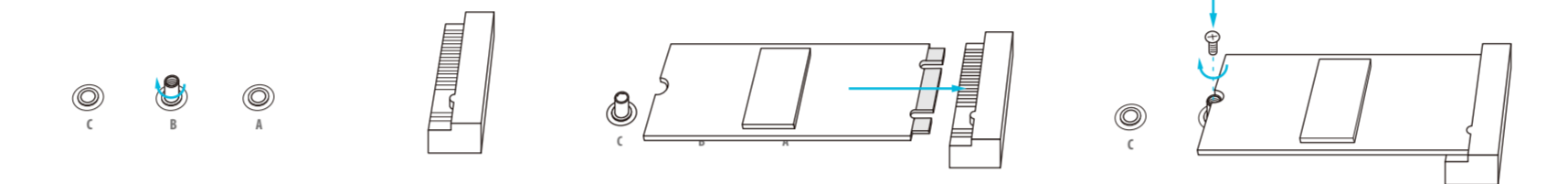
5. Attach the SMA Wi-Fi Antenna Cables to the WiFi Module.
6. Connect the two WiFi 2.4/5 GHz Antennas to the antenna connectors.
7. Turn the antenna clockwise until it is securely connected. Set the WiFi 2.4/5 GHz Antenna at 90-degree angle.
*You may need to adjust the direction of the antenna for a stronger signal.

H Installing the M.2 SSD

The following is an example of installing M.2_SSD (NGFF) module into the M2_2.

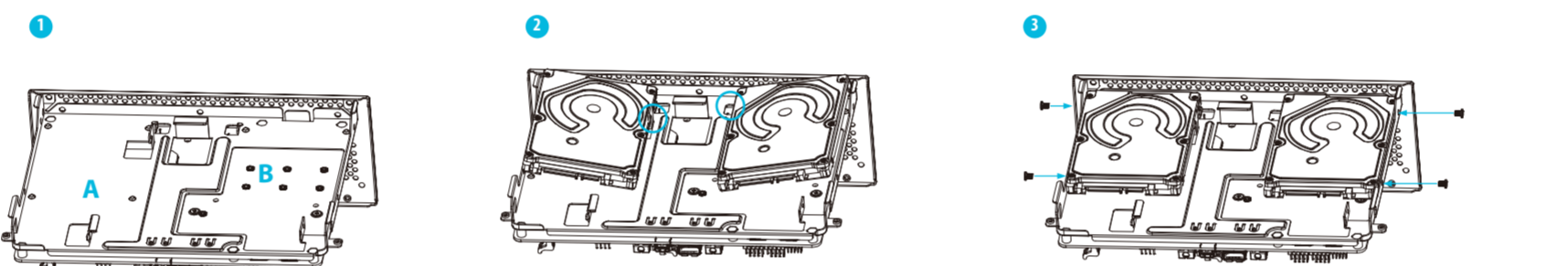


1. Prepare a M.2_SSD (NGFF) module and the screw.
2. Depending on the PCB type and length of your M.2_SSD (NGFF) module, find the corresponding nut location to be used.
3. Move the standoff based on the module type and length. The standoff is placed at the nut location D by default. Skip Step 3 and 4 and go straight to Step 5 if you are going to use the default nut. Otherwise, release the standoff by hand.

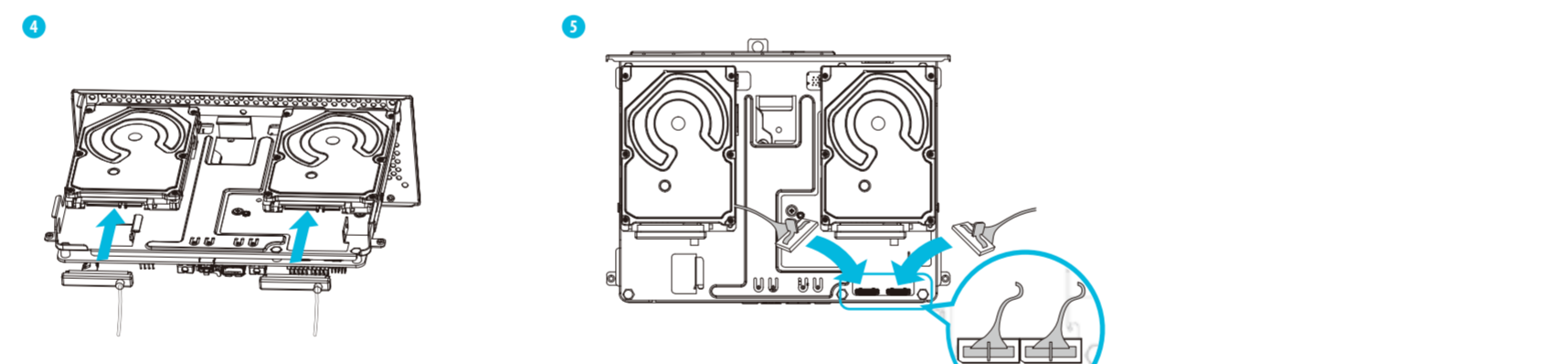


4. Peel off the yellow protective film on the nut to be used. Hand tighten the standoff into the desired nut location on the motherboard.
5. Align and gently insert the M.2 (NGFF) SSD module into the M.2 slot. Please be aware that the M.2 (NGFF) SSD module only fits in one orientation.
6. Tighten the screw with a screwdriver to secure the module into place. Please do not overtighten the screw as this might damage the module.

I Installing the 2.5-inch HDD/SSD

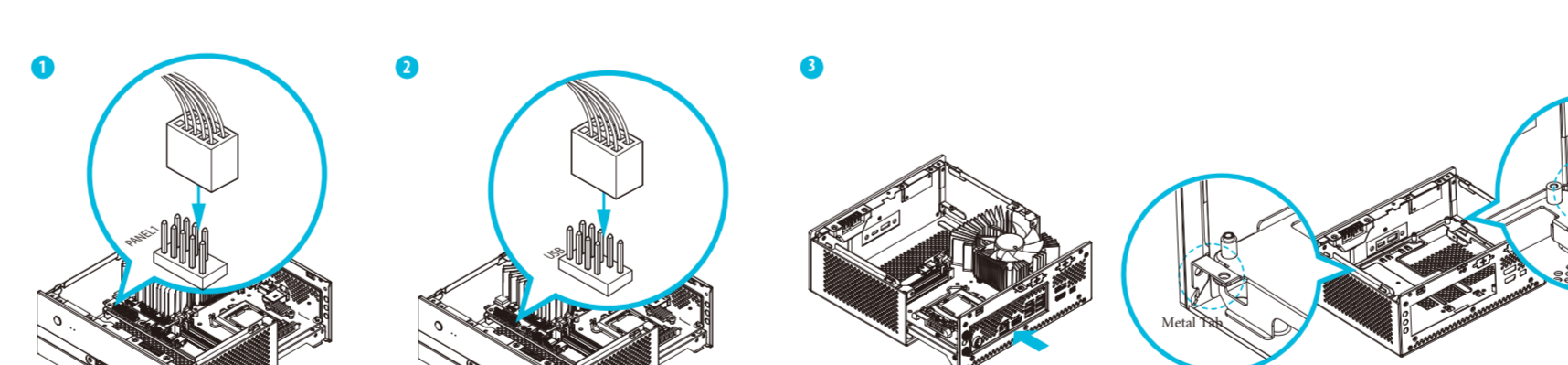


1. Locate the drive mounting trays.
2. Engage the HDDs/SSDs with the latches in the drive mounting trays.
3. Place the HDDs/SSDs on the trays. Align the drive screw holes with those in the drive mounting trays. Then secure the HDDs/SSDs with four screws.



4. Connect the SATA Data and Power Cable to the HDDs/SSDs.
5. Connect the other end of the SATA Cables to the SATA Connectors on the motherboard.

J Complete



1. Connect the power button cable to the System Panel Header on the motherboard.
2. Connect the USB cable to the USB Header on the motherboard.
3. Install the motherboard tray.
4. Refasten the two screws in the chassis.
5. Replace the top cover.
6. Refasten the four screws of the back panel.

Note:
Before re-installing the motherboard tray, be sure to place the tray below the side chassis's metal tab.

Support

Ссылка на веб-сайт: <http://www.asrock.com> для просмотра о:
- Списке прерогативной памяти, M.2, жестком диске SATA 2.5 дюйма, беспроводных интерфейсных платах и поддерживаемых операционных системах.
- информации о загрузки последних версий драйверов и обновлений BIOS
- а также актуальной информации о поддержке материя.
Por favor, visite nosso Website em <http://www.asrock.com> para:
- Uma lista de memórias testadas, M.2, HDD 2.5" SATA, placas de interface sem fio e sistemas operacionais que são suportados;
- para informações sobre como baixar as últimas atualizações de drivers e BIOS;
- bem como as mais recentes informações de suporte do produto.
다음 항목은 당사 웹사이트 <http://www.asrock.com>을 참조하십시오.
- 테스트된 메모리, M.2, 2.5" SATA HDD, 무선 인터페이스 카드 및 지원되는 운영 체제의 목록
- 최신 드라이버 및 BIOS 업데이트 다운로드에 관한 정보
- 최신 제품 지원 정보
次については弊社ウェブサイト (<http://www.asrock.com>) をご覧ください。
- テスト済みメモリ、M.2、2.5" SATA HDD、ワイヤレスインターフェースカード、対応するオペレーティングシステム
- 最新のドライバとBIOSアップデートのダウンロードに関する情報
- 最新製品サポート情報
Visitate il nostro sito all'indirizzo <http://www.asrock.com> per:
- l'elenco di memorie, M.2, HDD SATA 2.5", schede d'interfaccia wireless e sistemi operativi che sono stati testati e sono supportati;
- Informazioni sul download dei driver più recenti e degli aggiornamenti BIOS;
- Informazioni aggiornate sul supporto dei prodotti.
Visite nuestro sitio Web en <http://www.asrock.com> para:
- Obtener una lista de memorias, M.2, HDD SATA de 2.5", tarjetas de interfaz inalámbricas y sistemas operativos admitidos probados;
- Obtener información acerca de la descarga del controlador y de las actualizaciones del BIOS más recientes;
- Obtener la información más reciente sobre el soporte técnico del producto.
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| Unit | Restricted substances and its chemical symbols | | | | | |
|--------------|--|--------------|--------------|---|--------------------------------|---------------------------------------|
| | Lead (Pb) | Mercury (Hg) | Cadmium (Cd) | Hexavalent chromium (Cr ^{VI}) | Polybrominated biphenyls (PBB) | Polybrominated diphenyl ethers (PBDE) |
| Plastic Case | ○ | ○ | ○ | ○ | ○ | ○ |
| PCB | ○ | ○ | ○ | ○ | ○ | ○ |
| Power Supply | ○ | ○ | ○ | ○ | ○ | ○ |
| Cables | ○ | ○ | ○ | ○ | ○ | ○ |
| Hard Disk | ○ | ○ | ○ | ○ | ○ | ○ |
| Power Supply | ○ | ○ | ○ | ○ | ○ | ○ |

Note 1: "Exceeding 0.1 wt%" and "exceeding 0.01 wt%" indicate that the percentage content of the restricted substance exceeds the reference percentage value of presence condition.
Note 2: "○" indicates that the percentage content of the restricted substance does not exceed the percentage of reference value of presence.
Note 3: The "○" indicates that the restricted substance corresponds to the exemption.

Warranty Term

保固條款 / Garantiebedingungen / Conditions de la garantie / Termini della garanzia / Términos de la garantía / Срок действия гарантии / Термос da Garantia / 보증 조항 / 保証期間
English
- Warranty of host of DeskMini GTX/RX series super microcomputer (casing excluded): 1 year
- Warranty of transformer: 1 year
- Our warranty does not cover the casing of the product, the CD drive, the metal frame and fasteners and screws, or packaging accessories.
- Data stored in the product may be lost as a result of the repair work or re-formatting of the hard drive disk. ASRock does not provide data recovery services or data storage. Please back up your data regularly to protect the data and avoid loss. For details of our warranty terms, please refer to the individual warranty statement applicable to the district where your product was bought.
繁體中文
- DeskMini GTX/RX series (超微型電腦)主機保固1年(但不含外殼)。
- 變壓器保固一年。
- 產品的外殼、CD、固定鐵架(含螺絲)、產品的包裝配件,恕不在保固範圍內。
- 產品內的資料可能因維修或重新格式化而遺失,華擎科技並無提供客戶資料救援與保管之服務,強烈建議您應定期備份資料免於重要資料損壞。
- 其他國際條約,請見各品購買地區之個別條款。
Deutsch
- Garantie des Hosts des Super-Mikrocomputers der DeskMini GTX/RX series Gehäuse ausgenommen): 1 Jahre
- Unsere Garantie gilt nicht für das Gehäuse des Produktes, das CD-Laufwerk, den Metallrahmen, die Befestigungen und Schrauben sowie das Verpackungsmaterial.
- Auf dem Produkt gespeicherte Daten können in Folge der Reparatur oder Neuformatierung der Festplatte verlorengehen. ASRock bietet keine Datenwiederherstellungs dienste oder Datenspeicherung. Bitte sichern Sie Ihre Daten zum Schutz der Daten und zur Vermeidung von Datenverlust regelmäßig. Einzelheiten zu unseren Garantiebedingungen finden Sie in der für die Region, in der Ihr Produkt erworben wurde, geltenden Garantieerklärung.
Français
- Garantie de l'hôte de la série DeskMini GTX/RX de micro-ordinateurs (boîtier exclu) : 1 ans
- Notre garantie ne couvre pas le boîtier du produit, le lecteur CD, le cadre métallique et les fixations et vis, ainsi que les accessoires d'emballage.
- Les données stockées sur le produit peuvent être perdues suite à un travail de réparation ou de reformatage du disque dur. ASRock ne fournit pas de services de récupération de données ou de stockage de données. Veuillez sauvegarder vos données régulièrement pour protéger les données et d'éviter leur perte.
- Pour les détails des conditions de notre garantie, reportez-vous à la déclaration de garantie individuelle applicable au lieu d'achat de ce produit.
Italiano
- Garanzia degli host dei super microcomputer serie DeskMini GTX/RX (copertura esclusa): 1 anni
- La nostra garanzia non copre le coperture del prodotto, l'unità CD, la struttura metallica, i dispositivi di fissaggio e leviti, o gli accessori contenuti nella confezione.
- I dati archiviati nel prodotto potrebbero andare persi in seguito a lavori di riparazione o ri-formattazione dell'unità HDD. ASRock non fornisce servizi di recupero o archiviazione dei dati. Eseguire il backup dei dati regolarmente per proteggere i dati ed evitare perdite.
Per i dettagli sui termini della garanzia, fare riferimento alle singole dichiarazioni di garanzia applicabili alla zona in cui è stato acquistato il prodotto.
Español
- Garantía del host de supermicrocomputador de la serie DeskMini GTX/RX (sin incluir la carcasa): 1 años
- Nuestra garantía no cubre la carcasa del producto, la unidad de CD, el marco metálico y los elementos de sujeción y tornillos o accesorios del paquete.
- Los datos almacenados en el producto pueden perderse como consecuencia de un trabajo de reparación o de una nueva operación de formato en la unidad de disco duro. ASRock no proporciona servicios de recuperación de datos ni almacenamiento de datos. Haga una copia de seguridad de sus datos con cierta frecuencia para proteger estos y evitar su pérdida.
- Para obtener detalles de nuestros términos de garantía, consulte la declaración de garantía individual aplicable al distrito en el que adquirió el producto.

한국어
- DeskMini GTX/RX 시리즈 슈퍼 마이크로컴퓨터 호스트(케이스 제외)에 대한 보증: 1년
- 변압기 대한 보증: 1년
- 당사의 보증에는 제품의 케이스, CD 드라이브, 금속 프레임 및 고정 장치와 나사 또는 포장 액세서리가 포함되지 않습니다.
- 제품에 저장된 데이터는 수리 작업을 하거나 하드 드라이브 디스크를 다시 포맷하면 손실될 수 있습니다. ASRock는 데이터 복구 또는 데이터 저장 서비스를 제공하지 않습니다. 정기적으로 데이터를 백업하여 데이터를 보호하고 데이터 손실을 방지하십시오.
- 보증 조항에 대한 자세한 내용은 제품을 구입한 지역에 적용되는 보증서를 참조하십시오.
日本語
- DeskMini GTX/RX シリーズスーパーマイクロコンピュータ(ケーシングは含まれません)のホストの保証期間: 1年間
- トランスフォーマー保証: 1年間
- 製品のケーシング、CDドライブ、金属フレーム、および、固定具とねじ、または、パッケージング付属品は弊社の保証の対象外となります。
- ハードドライブ/ディスクを修理したり、再フォーマットすると、製品内に保管されたデータが失われることがあります。ASRockはデータ回復サービスまたはデータ保存サービスは提供いたしません。データを保護して損失を防止するために、データを定期的にバックアップしてください。
- 弊社の保証条件の詳細については、製品を購入された地域に適用されるそれぞれの保証書を参照してください。

Safety & Regulatory Information

安全與規範資訊 / Sicherheits- und Richtlinienhinweise / Informations de sécurité et réglementaires / Informazioni sugli standard di sicurezza / Información sobre seguridad y normativas / Informações no técnico безопасности и нормативным вопросам / Informaciones de Seguridad e Regulamentares / 안전 및 규정 정보 / 安全性および規制に関する情報
Failure to use the included Power Adapter may violate regulatory compliance and may expose the user to safety hazards.
未能使用隨附的電源變壓器，可能違反法規規矩導致使用者受到安全危害。
Wird das mitgelieferte Netzteil nicht verwendet, könnte die Richtlinienkonformität verletzt werden; zudem setzt sich der Nutzer möglicherweise Sicherheitsrisiken aus.
Ne pas utiliser l'adaptateur secteur inclus peut enfreindre des lois de conformité réglementaire et exposer l'utilisateur à des risques de sécurité.
Il mancato uso dell'adattatore di corrente fornito in dotazione, può violare la conformità agli standard di sicurezza e può esporre l'utente a pericoli.
Un uso inadecuado del adaptador de alimentación incluido puede infringir el cumplimiento de normativas y puede exponer al usuario a riesgos de seguridad.
Если не используются входящий в комплект поставки адаптер питания, это нарушает нормативные требования и создает угрозу безопасности пользователя.
A não utilização do adaptador de corrente incluído pode violar a conformidade regulatória e pode expor o usuário a riscos de segurança.
함께 제공된 전원 어댑터를 사용하지 않으면 규정상 적합성을 위반하게 되고 이로써 사용자가 안전 위험에 노출될 수 있습니다.
付属の電源アダプタを使用しないと、規制準拠に違反したり、ユーザーが危険にさらされる可能性があります。
Risk of explosion if the battery is replaced with an incorrect type. Batteries should be recycled where possible. Disposal of used Batteries must be in accordance with local environmental regulations.
若以不正廠標的電池進行更換，可能會導致爆炸危險。
Batterien müssen recycelt werden, sofern möglich. Gebrauchte Batterien müssen gemäß den örtlichen Umweltschutzvorschriften entsorgt werden.
Risque d'explosion si la batterie n'est pas du bon type. Les piles doivent être recyclées quand cela est possible. Le rejet des batteries usagées doit être effectué en fonction des réglementations locales.
C'è il rischio d'esplosione se la batteria sostituita non è del tipo corretto. Le batterie devono essere riciclate utilizzando gli appositi raccoglitori. Le batterie usate devono essere smaltite in conformità alle leggi ambientali locali.
Hay riesgo de explosión si la batería se reemplaza por otra de tipo incorrecto. Las baterías se deben reciclar donde sea posible. Deshágase de las baterías usadas conforme a la normativa medioambiental local.
Характеристики батарей отпачиваются от оригинальных могут привести к разрушению корпуса элемента (информация). Исполненные батареи должны быть утилизованы в соответствии с рекомендациями местных регулирующих органов.
Risco de explosão caso a bateria seja trocada por um tipo incorreto. As baterias devem ser recicladas sempre que possível. O descarte das baterias usadas deve ser controlado de acordo com os regulamentos ambientais locais.
배터리를 잘못 교체된 경우로 인해 폭발 위험이 있습니다. 가능한 경우 배터리를 재활용하십시오. 사용된 배터리는 현지 환경 보호 및 폐기 규정과 관련 규정에 따라 처리하십시오.
間違ったバッテリーへの交換は、破裂など事故の原因になります。可能であればバッテリーはなるべくリサイクルしてください。使用済みバッテリーは地域の環境規制に従って処理してください。