

# GC-CI22M\_A

# GC-CI11M\_A

Installation Guide/安裝指南  
安裝指南/インストールガイド

12WE6-WIFICNV-10\*R

## GC-CI22M\_A

### Intel® Wireless-AC 9560

- ◆ Intel® CNVi interface 802.11a/b/g/n/ac, supporting 2.4/5 GHz Dual-Band (M.2 Socket 1, type 2230)
- ◆ Bluetooth 5
- ◆ Support for 11ac 160MHz wireless standard and up to 1.73 Gbps data rate
  - \* Actual data rate may vary depending on environment and equipment.

- ◆ Intel® CNVi interface 802.11a/b/g/n/ac · 支援2.4/5 GHz無線雙頻 (M.2 Socket 1, type 2230)
- ◆ Bluetooth 5
- ◆ 支援11ac 160MHz無線通信標準，可支援至最高1.73 Gbps
  - \* 實際傳輸速度將因使用環境及設備而有所差異。

- ◆ Intel® CNVi interface 802.11a/b/g/n/ac · 支持2.4/5 GHz无线双频 (M.2 Socket 1, type 2230)
- ◆ Bluetooth 5
- ◆ 支持11ac 160MHz无线通信标准，可支持至最高1.73 Gbps的传输速度
  - \* 实际传输速度将因使用环境及设备而有所差异。

- ◆ Intel® CNVi interface 802.11 a/b/g/n/ac. 2.4 GHz と 5 GHzデュアルバンドに対応します (M.2 Socket 1, type 2230)
- ◆ Bluetooth 5
- ◆ 11ac 160MHzワイヤレス規格に対応し、最大1.73 Gbpsのデータ転送が可能です
  - \* 実際のデータ転送速度は、ご使用の機器構成によって異なる場合があります。

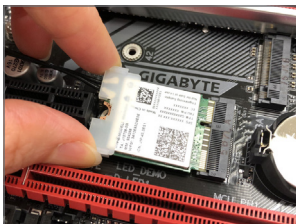
## GC-C11M\_A

### Intel® Wireless-AC 9462

- ◆ Intel® CNVi interface 802.11a/b/g/n/ac, supporting 2.4/5 GHz Dual-Band (M.2 Socket 1, type 2230)
  - ◆ Bluetooth 5
  - ◆ Support for 11ac wireless standard and up to 433 Mbps data rate
    - \* Actual data rate may vary depending on environment and equipment.
- 
- ◆ Intel® CNVi interface 802.11a/b/g/n/ac · 支援2.4/5 GHz無線雙頻 (M.2 Socket 1, type 2230)
  - ◆ Bluetooth 5
  - ◆ 支援11ac無線通信標準，可支援至最高433 Mbps
    - \* 實際傳輸速度將因使用環境及設備而有所差異。
- 
- ◆ Intel® CNVi interface 802.11a/b/g/n/ac · 支持2.4/5 GHz无线双频 (M.2 Socket 1, type 2230)
  - ◆ Bluetooth 5
  - ◆ 支持11ac无线通信标准，可支持至最高433 Mbps的传输速度
    - \* 实际传输速度将因使用环境及设备而有所差异。
- 
- ◆ Intel® CNVi interface 802.11 a/b/g/n/ac. 2.4 GHz と 5 GHzデュアルバンドに対応します (M.2 Socket 1, type 2230)
  - ◆ Bluetooth 5
  - ◆ 11ac ワイヤレス規格に対応し、最大 433 Mbps のデータ転送が可能です
    - \* 実際のデータ転送速度は、ご使用の機器構成によって異なる場合があります。

**Installing the M.2 Wi-Fi Module • 安裝 M.2 Wi-Fi 模組**  
**安裝 M.2 Wi-Fi 模块 • M.2 Wi-Fi モジュールを取り付ける**





**Step 1:**

Unfasten the screw from the motherboard. Insert the M.2 Wi-Fi module into the M.2 Wi-Fi connector.

**步驟一：**

先將主機板上M.2 Wi-Fi插座的螺絲拆下，接著將M.2 Wi-Fi模組安裝至M.2 Wi-Fi插座。

**步驟一：**

先將主板上M.2 Wi-Fi插槽的螺絲拆下，接著將M.2 Wi-Fi模塊安裝至M.2 Wi-Fi插槽。

**ステップ1:**

まずは、マザーボードからネジを外します。その後、M.2 Wi-Fi モジュールを M.2 Wi-Fi コネクタに挿入します。



**Step 2:**

Press the M.2 Wi-Fi module down and then secure it with the screw.

**步驟二：**

壓住M.2 Wi-Fi模組之後，將螺絲鎖上。

**步驟二：**

壓住M.2 Wi-Fi模塊之後，將螺絲鎖上。

**ステップ2:**

M.2 Wi-Fi モジュールを押しながら、ネジで固定します。



#### Step 3:

Secure the metal bracket to the chassis back panel with a screw. Tighten the antenna cables to the antenna connectors.

#### 步驟三：

將鐵片鎖至機殼後方，再將天線鎖至M.2 Wi-Fi 模組的天線連接埠。

#### 步驟三：

將鐵片鎖至机箱后方，再将天线锁至M.2 Wi-Fi 模块的天线接口。

#### ステップ3：

金属ブラケットを機体背面パネルにネジで締め付け、アンテナケーブルをアンテナコネクタにしっかりと固定します。



#### Step 4:

Then move the antenna to a place where the signal is good.

#### 步驟四：

完成安裝後將天線移至收訊良好處。

#### 步驟四：

完成安裝后将天线移至收訊良好處。

#### ステップ4：

次に、信号が受信しやすい場所にアンテナを置きます。

## Installing the Drivers and Utilities • 安裝驅動程式及工具 安裝驅動程序及工具 • ドライバとユーティリティをインストールする

After the computer starts, install the driver for the Wi-Fi module. Adjust your wireless LAN configuration based on your environment after installing the driver.

啟動電腦後請安裝驅動程式。完成後即可依環境中的無線網路選擇連接。

启动电脑后请安装驱动程序。完成后即可依环境中的无线网络选择连接。

コンピュータが起動した後、ドライバーをインストールしてください。ドライバーをインストールした後に、ご使用の環境に基づいて、ワイヤレス LAN の設定を行います。

### **FCC Notice (U.S.A. Only)**

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. **WARNING:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates and radiates radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult a dealer or experienced TV/radio technician for help.

The user may find the following booklet prepared by the Federal Communications Commission helpful: The Interference Handbook.

This booklet is available from the U.S. Government Printing Office, Washington, D.C.20402. Stock No.004-000-00345-4

### **Notice for 5GHz**

Operations in the 5.15-5.25GHz band are restricted to indoor usage only. (For 5GHz only)

### **RF exposure statement**

The product comply with the FCC portable RF exposure limit set forth for an uncontrolled environment and are safe for intended operation as described in this manual. The further RF exposure reduction can be achieved if the product can be kept as far as possible from the user body or set the device to lower output power if such function is available.

### **CAUTION:**

The manufacturer is not responsible for any interference caused by unauthorized modifications and/or use of unauthorized antennas. Such changes and/or modifications not expressly approved by the party responsible for compliance of this device could void the user's authority to operate the equipment.



## **Canada-Industry Canada (IC):**

This device complies with Canadian RSS-210.

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions:

- (1) this device may not cause interference, and
- (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Ce dispositif est conforme à la norme CNR-210 d'Industrie Canada applicable aux appareils radio exempts de licence. Son fonctionnement est sujet aux deux conditions suivantes:

- (1) le dispositif ne doit pas produire de brouillage préjudiciable, et
- (2) ce dispositif doit accepter tout brouillage reçu, y compris un brouillage susceptible de provoquer un fonctionnement indésirable.

### **Notice for 5GHz:**

Caution :

- (i) the device for operation in the band 5150-5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems;
- (ii) the maximum antenna gain permitted for devices in the bands 5250-5350 MHz and 5470-5725 MHz shall comply with the e.i.r.p. limit; and
- (iii) the maximum antenna gain permitted for devices in the band 5725-5825 MHz shall comply with the e.i.r.p. limits specified for point-to-point and non point-to-point operation as appropriate.
- (iv) Users should also be advised that high-power radars are allocated as primary users (i.e. priority users) of the bands 5250-5350 MHz and 5650-5850 MHz and that these radars could cause interference and/or damage to LE-LAN devices.

### **Avertissement:**

Le guide d'utilisation des dispositifs pour réseaux locaux doit inclure des instructions précises sur les restrictions susmentionnées, notamment :

- (i) les dispositifs fonctionnant dans la bande 5 150-5 250 MHz sont réservés uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux;
- (ii) le gain maximal d'antenne permis pour les dispositifs utilisant les bandes 5 250-5 350 MHz et 5 470-5 725 MHz doit se conformer à la limite de p.i.r.e.;
- (iii) le gain maximal d'antenne permis (pour les dispositifs utilisant la bande 5 725-5 825 MHz) doit se conformer à la limite de p.i.r.e. spécifiée pour l'exploitation point à point et non point à point, selon le cas.
- (iv) De plus, les utilisateurs devraient aussi être avisés que les utilisateurs de radars de haute puissance sont désignés utilisateurs principaux (c.-à-d., qu'ils ont la priorité) pour les bandes 5 250-5 350 MHz et 5 650-5 850 MHz et que ces radars pourraient causer du brouillage et/ou des dommages aux dispositifs LAN-EL.

### **Radiation Exposure Statement:**

The product comply with the Canada portable RF exposure limit set forth for an uncontrolled environment and are safe for intended operation as described in this manual. The further RF exposure reduction can be achieved if the product can be kept as far as possible from the user body or set the device to lower output power if such function is available.

### **European Community Radio Equipment Directive (RED) Compliance Statement:**

This equipment complies with all the requirements and other relevant provisions of Radio Equipment Directive 2014/53/EU. This equipment is suitable for home and office use in all the European Community Member States and EFTA Member States. The low band 5.15 - 5.35 GHz is for indoor use only.

#### **Restrictions d'utilisation en France:**

Pour la France métropolitaine

2.400 - 2.4835 GHz (Canaux 1 à 13) autorisé en usage intérieur

2.400 - 2.454 GHz (canaux 1 à 7) autorisé en usage extérieur

Pour la Guyane et la Réunion

2.400 - 2.4835 GHz (Canaux 1 à 13) autorisé en usage intérieur

2.420 - 2.4835 GHz (canaux 5 à 13) autorisé en usage extérieur

#### **Notice for Italy:**

The use of these equipments is regulated by:

1. D.L.gs 1.8.2003, n. 259, article 104 (activity subject to general authorization) for outdoor use and article 105 (free use) for indoor use, in both cases for private use.
2. D.M. 28.5.03, for supply to public of RLAN access to networks and telecom services. L'uso degli apparati è regolamentato da:
  1. D.L.gs 1.8.2003, n. 259, articoli 104 (attività soggette ad autorizzazione generale) se utilizzati al di fuori del proprio fondo e 105 (libero uso) se utilizzati entro il proprio fondo, in entrambi i casi per uso private.
  2. D.M. 28.5.03, per la fornitura al pubblico dell'accesso R-LAN alle reti e ai servizi di telecomunicazioni.

### **Taiwan NCC Wireless Statements / 無線設備警告聲明:**

低功率電波輻射性電機管理辦法

第十二條：經型式認證合格之低功率射頻電機，非經許可，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。

第十四條：低功率射頻電機之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。前項合法通信，指依電信法規定作業之無線電通信。低功率射頻電機須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

在5.25-5.35GHz赫茲帶內操作之無線資訊傳輸設備，限於室內使用。

### **Korea KCC NCC Wireless Statement:**

5,25 GHz - 5,35 GHz 대역을 사용하는 무선 장치는 실내에서만 사용하도록 제한됩니다.

### **Japan Wireless Statement:**

5.15GHz帯 - 5.35GHz帯: 屋内のみの使用。

**BSMI CNS15663 限用物質含有情況標示聲明書**  
**Declaration of the Presence Condition of the Restricted Substances Marking**

設備名稱： Equipment name		型號（型式）： Type designation (Type)					
單元Unit	限用物質及其化學符號 Restricted substances and its chemical symbols						
	鉛 Lead (Pb)	汞 Mercury (Hg)	鎘 Cadmium (Cd)	六價鉻 Hexavalent chromium (Cr+6)	多溴聯苯 Polybrominated biphenyls (PBB)	多溴二苯醚 Polybrominated diphenyl ethers (PBDE)	
PCB板 PCB	○	○	○	○	○	○	
結構件及風扇 Mechanical parts and Fan	—	○	○	○	○	○	
晶片及其他主動零件 Chip and other Active components	—	○	○	○	○	○	
連接器 Connectors	—	○	○	○	○	○	
被動電子元件 Passive Components	—	○	○	○	○	○	
焊接金屬 Soldering metal	○	○	○	○	○	○	
助焊劑、散熱膏、標籤及其他耗材 Flux, Solder Paste, Label and other Consumable Materials	○	○	○	○	○	○	
備者1. "超出0.1 wt %" 及 "超出0.01 wt %" 係指限用物質之百分比含量超出百分比含量基準值。 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.							
備者2. "○"係指該項限用物質之百分比含量未超出百分比含量基準值。 Note 2: "○" indicates that the percentage content of the restricted substance does not exceed the percentage of reference value of presence.							
備者3. "—"係指該項限用物質為排除項目。 Note 3: The "-" indicates that the restricted substance corresponds to the exemption.							

### Declaration of Conformity

We, Manufacturer/Importer,

**G.B.T. Technology Trading GmbH**

Address: **Bullenkeppel 16, 22047 Hamburg, Germany**

Declare that the product

Product Type: **PCIe add-in card**

Product Name: **GC-CI22M\_A  
GC-C111M\_A**

conforms with the essential requirements of the following directives:

**EMC Directive 2014/30/EU:**

- |  |                           |
|--|---------------------------|
| <input checked="" type="checkbox"/> Conduction & Radiated Emissions: | EN 55022:2010/AC:2011     |
| <input checked="" type="checkbox"/> Immunity:                        | EN 55024:2010             |
| <input checked="" type="checkbox"/> Power-line harmonics:            | EN 61000-3-2:2006+A2:2009 |
| <input checked="" type="checkbox"/> Power-line flicker:              | EN 61000-3-3:2013         |

**Low Voltage Directive (LVD) 2014/35/EU:**

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Safety: | EN 60950-1:2006+A11:2009+A12:2011+A1:2010+AC:2011+A2:2013<br>EN 50598:2013/AC:2014, EN 62369-1:2014 |
|---|---|

**Radio Equipment Directive (RED) 2014/53/EU:**

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Technical Requirements: | EN 300 328 v2.1.1,<br>EN 301 885 v1.8.1 & v2.1.1 (Rx blocking)<br>EN 301 489-1 v2.2.0, EN 301 489-17 v3.2.0,<br>EN 50522:2010, EN 300 440-1 v1.6.1,<br>EN 300 440-2 v1.4.1, EN 300 440 v2.1.1 (Rx blocking) |
|---|---|

**RoHS Directive 2011/65/EU**

- |   |  |
|---|--|
| <input checked="" type="checkbox"/> Restriction of use of certain substances in electronic equipment: | This product does not contain any of the restricted substances listed in Annex II, in concentrations and applications banned by the directive. |
|---|--|

**CE marking**



Signature: Timmy Huang

Name: \_\_\_\_\_ Date: Feb. 9, 2018 Name: Timmy Huang

### DECLARATION OF CONFORMITY

Per FCC Part 2 Section 2.1077(a)



Responsible Party Name: **G.B.T. INC. (U.S.A.)**

Address: **17358 Railroad Street  
City of Industry, CA 91748**

Phone/Fax No: (626) 854-9338/ (626) 854-9326

hereby declares that the product

**Product Name: PCIe add-in card**

**Model Number: GC-CI22M\_A  
GC-C111M\_A**

Conforms to the following specifications:

FCC Part 15, Subpart B, Section 15.107(a) and Section 15.109 (a), Class B Digital Device

**Supplementary Information:**

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 and (2) this device must accept any interference received, including that may cause undesired operation.

Representative Person's Name: ERIC LU

Signature: Eric Lu

Date: Feb. 9, 2018

## GC-CI22M\_A









### Wireless Module Country Approvals:

Radio Equipment:

Name: Intel® Wireless-AC 9560

Model: 9560NGW

Manufacturer: Intel Mobile Communications SAS

United States: FCC: PD99560NG	Japan:   003-170126  D170080003 5.15~5.35GHz indoor use only	Serbia:  011 17
Canada: IC: 1000M-9560NG	Mexico: RCPIN9517-1584	Singapore <div style="border: 1px solid black; padding: 2px; display: inline-block;">Complies with IDA standards DB 02941</div>
Australia & New-Zealand: 		China: CMIIT ID: 2017AJ4643 (M)
European Union: 	South Korea:  MSIP-CRM-INT-9560NGW 1. 상호명: Intel Corporation 2.기자재의 명칭(모델명): 특정소출력 무선기기 (무선랜을 포함한 무선접속시스템용 무선기기) 9560NGW 3. 제조시기: 2017/07 4. 제조지/제조국: Intel Corporation/China	UAE: ERS7050/17
India: 2.4GHz: NR-ETA/6863 5GHz: NR-ETA/6862		Ukraine:  UA.TR.028

## GC-CI11M\_A








### Wireless Module Country Approvals:

Radio Equipment:

Name: Intel® Wireless-AC 9462

Model: 9462NGW

Manufacturer: Intel Mobile Communications SAS

United States: FCC: PD99462NG	Japan:   003-170245  D170151003 5.15~5.35GHz indoor use only	Singapore <div style="border: 1px solid black; padding: 5px; text-align: center;">                     Complies with IDA standards                      DB 02941                 </div>
Canada: IC: 1000M-9462NG	South Korea:  R-CRM-INT-9462NGW 1. 상호명: Intel Corporation 2.기자재의 명칭(모델명): 특정스플렉 무선기기 (무선랜을 포함한 무선집속시스템용 무선기기) 9462NGW 3. 제조사가: 2017/12 4. 제조자/제조국: Intel Corporation/China	Taiwan:  CCAH18LP0370T4
Australia & New-Zealand: 		
China: CMIIT ID: 2017AJ7583 (M)		
European Union: 		

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