# framework

**Framework™ Computer Inc**

**Model: FRANBP0000, FRANPA0000, FRANPE0000, FRANPG0000**

**Product: Portable Computer**
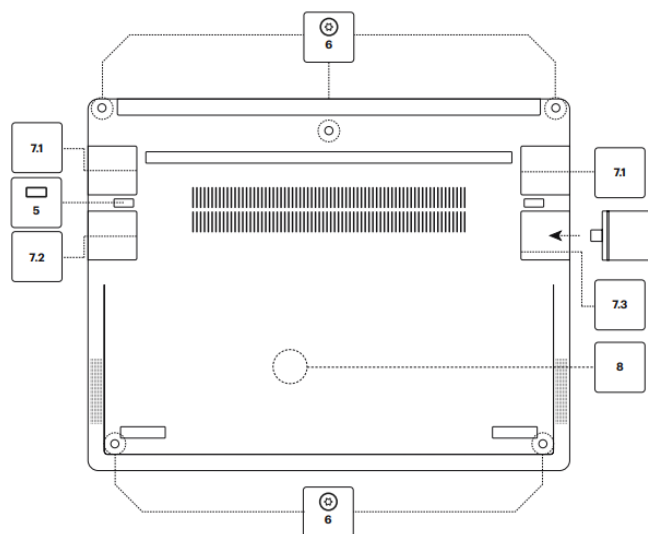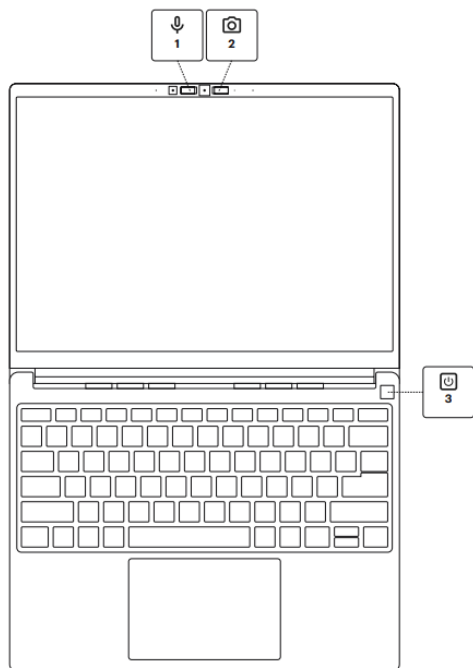
May 16, 2023
Revision 8

# System Photos

## Laptop Overview



**1** — Microphone Privacy Switch / Commutateur de confidentialité du microphone/ Mikrofon-Privatsphäre-Schalter / 麦克风隐私开关 / 麥克風隱私開關 / Interruptor de privacidad del micrófono / 마이크 프라이버시 스위치/ マイクのプライバシー スイッチ/ Interruttore per la privacy del microfono / Interruptor de privacidade do microfone / Privacyschakelaar voor microfoon

**2** — Camera Privacy Switch / Commutateur de confidentialité de la caméra / Kamera-Privatsphäre-Schalter / 相機隱私開關 / 相机隐私开关 / 카메라 프라이버시 스위치/ カメラのプライバシー スイッチ/ Interruptor de privacidad de la cámara / Interruttore per la privacy della fotocamera/ Interruptor de privacidade da câmera / Camera-privacyschakelaar

**3** — Power Button / Bouton d'alimentation / Power-Taste / 電源按鈕及指紋辨識器 / 电源按键及指纹识别器 / 전원 버튼 / 電源スイッチ/ Tasto di accensione / Botão de energia / Aanknop / Botón de encendido

**4** — Expansion Card / Carte d'extension / Erweiterungskarte / 擴充卡 / 扩展卡 / 확장 카드/ 拡張カード / Scheda di espansione / Cartão de expansão / Uitbreidingskaart /Tarjeta de expansion

**5** — Expansion Card Release Button / Bouton de libération de la carte d'extension / Entriegelungstaste für Erweiterungskarten / 擴充卡釋放鈕 / 扩展卡释放按钮 / Botón de liberación de la tarjeta de expansión / 확장 카드 해제 버튼 / 拡張カード リリース ボタン / Pulsante di rilascio della scheda di espansione / Botão de Liberação da Placa de Expansão Uitbreidingskaart vrijgaveknop

**6** — Five Fasteners - Fasteners to get inside the Framework Laptop / Cinq attaches - Attaches pour pénétrer à l'intérieur du cadre pour ordinateur portable Fünf Befestigungselemente – Befestigungselemente, um in den Framework-Laptop zu gelangen / 五處緊固件 - 鬆開緊固件以拆卸 Framework 筆記型電腦 /五处紧固件 - 松开紧固 件以拆卸 Framework 笔记型电脑 / Five Fasteners: afloje los sujetadores para desmontar la computadora portátil Framework/ 패스너 5개 - 패스너를 풀어 프레임워크 노트북 분해 / 5 つの留め具 - 留め具を緩めてフレームワークラップトップを分解します/ Cinque elementi di fissaggio: allentare gli elementi di fissaggio per smontare il telaio del laptop / Cinco fixadores - Solte os fixadores para desmontar o laptop da estrutura / Vijf bevestigingsmiddelen - maak de bevestigingsmiddelen los om de raamwerklaptop te demonteren

**7.1** — Type-C connector / Type-C連接埠* / Conector tipo C / C형 커넥터 / Connecteur de type C / Typ-C-Anschluss / Conector tipo C / タイプCコネクタ / Type-C-aansluiting
*資料傳輸：USB4. Power Delivery IN / OUT: 20V, 3A / 5V, 3A. 影音傳輸：3840X2160 (60Hz)

**7.2** — Type-C connector / Type-C連接埠* / Conector tipo C / C형 커넥터 / Connecteur de type C / Typ-C-Anschluss / Conector tipo C / タイプCコネクタ / Type-C-aansluiting
*資料傳輸：USB3.2. Power Delivery IN / OUT: 20V, 3A / 5V, 3A. 影音傳輸：3840X2160 (60Hz)

**7.3** — Type-C connector / Type-C連接埠* / Conector tipo C / C형 커넥터 / Connecteur de type C / Typ-C-Anschluss / Conector tipo C / タイプCコネクタ / Type-C-aansluiting
*資料傳輸：USB3.2. Power Delivery IN / OUT: 20V, 3A / 5V, 3A.

**8** — CPU* / 中央處理器
*Socket pin: BGA 1140 for FRANPG0000

Note: 1. Microphone Privacy Switch 2. Camera Privacy Switch 3. Fingerprint Reader 4. Touchpad 5. Expansion Card 6. Expansion Card Release Button 7. Five fasteners to get inside Framework Laptop

# Important Safety and Handling Information

This section of the User Manual contains safety, handling, disposal, recycling, and regulatory information, as well as the limited warranty for the Framework™ Laptop, including all current and future models of the FRANBP0000, FRANPA0000, FRANPE0000, FRANPG0000. Please read all safety information and operating instructions before using the Framework™ Laptop to avoid injury or harm. For a downloadable version of the Framework™ Laptop support guide please visit the following website.

https://frame.work/support

**General Safety Guide**

Read the following safety, operating, and warning instructions before you use Framework™ Laptop. Failing to do so may cause injury.

When the laptop is in charging or discharging mode, one port is at 3A, while the other ports are 1.5/1.5/1.5A.

**WARNING: Choking Hazards**

The Framework™ Laptop has small parts which may present a choking hazard to small children and pets. Keep the Framework™ Laptop and its accessories away from small children.

**WARNING: Rechargeable Lithium Ion Battery**

Lithium polymer batteries are extremely hazardous and liable to cause serious injuries to persons or property. The user accepts liability for the use of a lithium polymer battery. As the manufacturer and the distributor Framework cannot ensure the battery is used correctly (charging, discharging, storage, etc.), Framework Computer Inc is not liable for damages caused to persons or property by improperly used batteries.

In the event of battery leakage, avoid the liquid coming into contact with skin and eyes. In case of contact with the skin, wash copiously with soap and water. In case of contact with the eyes, rinse copiously with cold water and consult a doctor. If you notice a suspicious smell or noise, or observe smoke around the power adapter, disconnect it immediately.

Caution: The battery used in this device may present a risk of fire or chemical burn if mistreated. Do not disassemble, heat above 45C (113F), or incinerate. Replace battery with model FRANBBAT01 and FRANGWAT01 or other Framework-recommended batteries only. Use of another battery may present a risk of fire or explosion.

Do not use the Framework™ Laptop if its cover has been broken and the battery's plastic or mylar cover has been cracked or compromised in any way. Do not expose the battery to excessive physical shock. Do not expose the

Framework™ Laptop and its battery to heat or dispose of it in a fire. Do not put the battery in a microwave oven or in a pressurized container. Do not attempt to dismantle, pierce, distort, or cut the battery and do not attempt to repair the battery.  Keep away from children.

⚠️ Caution: Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the battery disposal instructions below.

**WARNING: Coin Cell Battery**

This product's coin-cell battery may contain perchlorate and may require special handling when recycled or disposed of. For more information, see www.dtsc.ca.gov/hazardouswaste/perchlorate. Do not ingest battery, Chemical Burn Hazard.  The Framework™ Laptop contains coin/button cell batteries. If the coin/button cell battery is swallowed it can cause severe internal burns and can lead to death. Keep new and used batteries away from children. After the internal parts have been installed, remember to replace all covers securely. If the coin/button cell battery is not secure in the holder, stop using the product and keep away from children.  If you think the batteries may have been swallowed or placed inside any part of the body, seek immediate attention.

Note: If you replace a battery that uses the wrong type, there may be an explosion. Please follow the battery disposal instructions below to dispose of the old battery.

**WARNING: ESD Shock**

The Framework™ Laptop includes internal components that are sensitive to ESD. Improper use may result in electrostatic shock to  the user or minor to severe damage to the product. Please visit our support page for more information in regards to operating and repairing the Framework™ Laptop properly to avoid ESD issues.

**WARNING: Hearing Damage**



To prevent possible hearing damage, do not listen at high volume levels for long periods.

**WARNING: Prop 65**

⚠️ WARNING: This product can expose you to DINP (Di-iso-nonyl Phthalate) material, which is known to the State of California to cause birth defects or other reproductive harm.  For more information go to www.P65Warnings.ca.gov.

**Operating Guide: Temperature, Storage, Use, and Replacement**

Operate and store the Framework™ Laptop in a place where the temperature is between 5C -35C (41F - 95F) (operating) -25C- 45C (-13F - 113F) (storage). Low or high-temperature conditions might temporarily shorten battery life or cause the Framework™ Laptop to temporarily stop working properly.

This equipment is not suitable for use in locations where children are likely to be present

Do not place the portable computer directly on the user's lap and exposed skin. Avoid using your portable computer with the base resting directly on the skin. The surface temperature may rise during normal operation. Sustained contact with exposed skin may cause discomfort or burn.

Do not operate the Framework™ Laptop without all of the removable components installed. Operation must include all components.

Please follow the below safety instructions in order to safely replace all of the Framework™ Laptops interchangeable components.

1. Remove your laptop from all power sources by unplugging your AC adapter from your power outlet
2. Turn your computer off
3. Wait until your laptop is completely cool to the touch to open or remove any internal components (This can take anywhere from 5 - 30 minutes).

⚠️ Caution - if you do not wait for the laptop to cool down you may risk the chance of encountering hot components which may result in a  potential burn risk.

Powering Framework™ Laptop Back On

1. Before restarting the Framework™ Laptop users must ensure that all screws are in place and tightened both internally and externally. The user must also ensure that all of the interchangeable components must be in their original locations. Note. Please pay particular attention that the C cover is aligned and all screws are tightened.
2. For instructions on the reassembly of the Framework™ Laptop - please refer to the replacement instructions in the reverse order.

**Operating Guide: Charging**

Examine the power adapter regularly for damage to the cord, plug, enclosure, or other parts. Never use a damaged power adapter cord. Use only certified power adapter cords for charging. Misuse can cause electrical shock.

Never charge a leaky battery or one that has been damaged. Do not use the Framework™ Laptop to charge any other battery than the compatible rechargeable battery.

Do not cover your product while the battery is charging. Recharge the battery at a temperature of between 5C -35C (41F - 95F) (operating).

Do not use the Framework™ Laptop if its cover has been broken and the battery's plastic or mylar cover has been cracked or compromised in any way.

The socket-outlet shall be installed near the equipment and shall be easily accessible.

# Framework Computer Inc Limited Warranty

By using your Framework Computer Inc ("Framework") product, you agree to be bound by the terms of the Framework Limited Warranty ("Warranty") at http://frame.work/support/warranty

If you do not agree to the terms of the Warranty, please return the Product within the return period stated in Framework's Terms of Sale.

# Framework™ Laptop Technical and Certification Information

## Laptop Technical Information

| Component | Base | Performance | Professional |
|---|---|---|---|
| Model | FRANBP0000, FRANPA0000, FRANPE0000, FRANPG0000 | FRANBP0000, FRANPA0000, FRANPE0000, FRANPG0000 | FRANBP0000, FRANPA0000, FRANPE0000, FRANPG0000 |
| Processor I/Os | 11th Gen Intel® Core™ i5-1135G7 (8M Cache, up to 4.20 GHz)<br><br>12th Gen Intel® Core™ i5-1240P Processor (12MCache, Up to 4.40 GHz)<br><br>13th Gen Intel® Core™ i5-1340P Processor (up to 4.6GHz, 4+8 cores)<br><br>AMD Ryzen™ 7040 Series - Ryzen™ 5 7640U (up to 4.9GHz, 6-core/12-thread) | 11th Gen Intel® Core™ i7-1165G7 (12M Cache, up to 4.70 GHz)<br><br>12th Gen Intel® Core™ i7-1260P Processor (18M Cache, up to 4.70 GHz12th Gen<br><br>13th Gen Intel® Core™ i7-1360P (up to 5.0GHz, 4+8 cores)<br><br>AMD Ryzen™ 7040 Series - Ryzen™ 7 7840U (up to 5.1GHz, 8-core/16-thread) | 11th Gen Intel® Core™ i7-1185G7 (12M Cache, up to 4.80 GHz)<br><br>12th Gen Intel® Core™ i7-1280P (24M Cache, Up to 4.80 GHz)<br><br>13th Gen Intel® Core™ - i7-1370P (up to 5.2GHz, 6+8 cores)<br><br>AMD Ryzen™ 7040 Series - Ryzen™ 7 7840U (up to 5.1GHz, 8-core/16-thread) |

| | | | |
|---|---|---|---|
| | | | |
| Graphics | Intel® UHD Graphics<br><br>Iris Xe Graphics<br><br>**AMD Ryzen™ 7040 Series**<br>Radeon™ 700M Graphics | Intel® UHD Graphics<br><br>Iris Xe Graphics<br><br>**AMD Ryzen™ 7040 Series**<br>Radeon™ 700M Graphics | Intel® UHD Graphics<br><br>Iris Xe Graphics<br><br>**AMD Ryzen™ 7040 Series**<br>Radeon™ 700M Graphics |
| Memory | **11th Gen, 12th Gen, 13th Gen**<br>8GB DDR4-3200 (1x8GB)<br><br>**AMD Ryzen™ 7040 Series**<br>8GB (1 x 8GB) DDR5-5600 | **11th Gen, 12th Gen, 13th Gen**<br>16GB DDR4-3200 (2x8GB)<br><br>**AMD Ryzen™ 7040 Series**<br>16 GB (2 x 8GB) DDR5-5600 | **11th Gen, 12th Gen, 13th Gen**<br>32GB DDR4-3200 (2x16GB)<br><br>**AMD Ryzen™ 7040 Series**<br>32GB (2 x 16GB) DDR5-5600 |
| Storage | 11th Gen Intel® Core™<br>256GB NVMe SSD<br><br>12th Gen Intel® Core™<br>256GB NVMe SSD<br><br>13th Gen Intel® Core™<br>256GB NVMe SSD<br><br>**AMD Ryzen™ 7040 Series**<br>256GB NVMe SSD | 11th Gen Intel® Core™<br>512GB NVMe SSD<br><br>12th Gen Intel® Core™<br>512GB NVMe SSD<br><br>13th Gen Intel® Core™<br>512GB NVMe SSD<br><br>**AMD Ryzen™ 7040 Series**<br>512GB NVMe SSD | 11th Gen Intel® Core™<br>1TB NVMe SSD<br><br>12th Gen Intel® Core™<br>1TB NVMe SSD<br><br>13th Gen Intel® Core™<br>1TB NVMe SSD<br><br>**AMD Ryzen™ 7040 Series**<br>1TB NVMe SSD |
| Connectivity | 11th Gen Intel® Core™<br>WiFi 6, Bluetooth 5.2<br><br>12th Gen Intel® Core™<br>WiFi 6E, WiFi 6E with vPro, Bluetooth 5.2<br><br>13th Gen Intel® Core™ | 11th Gen Intel® Core™<br>WiFi 6, Bluetooth 5.2<br><br>12th Gen Intel® Core™<br>WiFi 6E, WiFi 6E with vPro, Bluetooth 5.2<br><br>13th Gen Intel® Core™ | 11th Gen Intel® Core™<br>WiFi 6 with vPro, Bluetooth 5.2<br><br>12th Gen Intel® Core™<br>WiFi 6E, WiFi 6E with vPro, Bluetooth 5.2<br><br>13th Gen Intel® Core™ |

|  |  |  |  |
| --- | --- | --- | --- |
|  | WiFi 6E, WiFi 6E with vPro, Bluetooth 5.2<br><br>**AMD Ryzen™ 7040 Series**<br>WiFi 6E, Bluetooth 5.2 | WiFi 6E, WiFi 6E with vPro, Bluetooth 5.2<br><br>**AMD Ryzen™ 7040 Series**<br>WiFi 6E, Bluetooth 5.2 | WiFi 6E, WiFi 6E with vPro, Bluetooth 5.2<br><br>**AMD Ryzen™ 7040 Series**<br>WiFi 6E, Bluetooth 5.2 |
| OS | 11th Gen Intel® Core™<br>Windows 10 Home<br><br>12th Gen Intel® Core™<br>Windows 11 Home<br><br>13th Gen Intel® Core™<br>Windows 11 Home<br><br>**AMD Ryzen™ 7040 Series**<br>Windows 11 Home | 11th Gen Intel® Core™<br>Windows 10 Home<br><br>12th Gen Intel® Core™<br>Windows 11 Home<br><br>13th Gen Intel® Core™<br>Windows 11 Home<br><br>**AMD Ryzen™ 7040 Series**<br>Windows 11 Home | 11th Gen Intel® Core™<br>Windows 10 Pro<br><br>12th Gen Intel® Core™<br>Windows 11 Pro<br><br>13th Gen Intel® Core™<br>Windows 11 Pro<br><br>**AMD Ryzen™ 7040 Series**<br>Windows 11 Pro |
| Display | 13.5" 2256x1504 | 13.5" 2256x1504 | 13.5" 2256x1504 |
| Battery | **11th Gen Intel® Core™**<br>55Wh<br><br>**12th Gen Intel® Core™**<br>55Wh<br><br>**13th Gen Intel® Core™**<br>55 Wh<br><br>**AMD Ryzen™ 7040 Series**<br>55Wh | **11th Gen Intel® Core™**<br>55Wh<br><br>**12th Gen Intel® Core™**<br>55Wh<br><br>**13th Gen Intel® Core™**<br>61Wh<br><br>**AMD Ryzen™ 7040 Series**<br>61Wh | **11th Gen Intel® Core™**<br>55Wh<br><br>**12th Gen Intel® Core™**<br>55Wh<br><br>**13th Gen Intel® Core™**<br>61 Wh<br><br>**AMD Ryzen™ 7040 Series**<br>61Wh |
| Ports | 4x User-selectable Expansion Cards | 4x User-selectable Expansion Cards | 4x User-selectable Expansion Cards |
| Camera | 1080p 60fps | 1080p 60fps | 1080p 60fps |
| Biometrics | Fingerprint Reader | Fingerprint Reader | Fingerprint Reader |
| Dimensions | 296.63mm x 228.98mm x 15.65mm | 296.63mm x 228.98mm x 15.65mm | 296.63mm x 228.98mm x 15.65mm |
| Weight | 1.3kg | 1.3kg | 1.3kg |
| Power Adapter | 60W USB-C | 60W USB-C | 60W USB-C |

| Warranty | US: 1 Year Limited UK/EU: 2 Year Limited | US: 1 Year Limited UK/EU: 2 Year Limited | US: 1 Year Limited UK/EU: 2 Year Limited |
|---|---|---|---|

## Laptop Certification Information

| Result | Region | Directive | Test Standard | Category |
|---|---|---|---|---|
| PASS | Global | RoHS | Directive 2011/65/EU | Green |
| PASS | Global | REACH (SVHC) Declaration | Regulation (EC) no 1907/2006 | Green |
| PASS | Global | Halogen Free (HF) Requirement | IEEE Std. 1680.1-2018 | Green |
| PASS | USA | DOE & CEC BCS | CEC BCS: California Code of Regulations, Title 20, Division 2, Chapter 4. Energy Conservation - Battery Charging System, DoE BC: Energy Conservation Standards for Battery Chargers 10 CFR Parts 429 and 430 | Green |
| PASS | USA | CEC Computer | Appliance Efficiency Regulations of California Energy Commission. California Code of Regulations, Title 20, Division 2, Chapter 4. Energy Conservation-Computers. | Green |
| PASS | USA | E-Star | ENERGY STAR Program Requirements for Computers Version 8.0 | Green |
| PASS | USA | California Prop65 | California Proposition 65 | Green |
| PASS | Canada | NRCan BCS | CAN/CSA-C381.2-17 Energy performance of battery charging systems and uninterruptible power supplies, May 01, 2017 | Green |
| PASS | EU | ErP lot3 or 6/26 | Regulation (EC) no 1275/2008, Regulation (EU) 2023/826 | Green |
| PASS | EU | WEEE Report | Directive 2012/19/EU | Green |
| PASS | Australia/New Zealand | AUS/NZ MEPS | AS/NZS 5813.1:2012 & AS/NZ 5813.2:2012 | Green |
| PASS | Japan | JEL | 2019 JEITA IS-536 | Green |
| PASS | South Korea | KES | KS C IEC 62301 E-Standby Programme | Green |
| PASS | Taiwan | BMSI-RoHS | CNS 15663 | Green |
| PASS | EU | CE | EN 5532:2015+A11:2020 Class B, EN 55035:2017+A11:2020, ETSI EN 301489-1 V2.2.3(2019-11), ETSI EN 301489-17 V3.2.4 (2020-09) | EMC |
| PASS | UK | UKCA | BS EN 55032:2015 + A11:2020 Class B, BS EN 55035:2017 + A11:2020 | EMC |
| PASS | USA | FCC | FCC CFR Title 47, Part 15, Subpart B, Class B | EMC |
| PASS | Japan | VCCI | CISPR 32: 2015 + COR1:2016 Class B | EMC |
| PASS | Australia/New Zealand | CTICK (FRANBP0000, FRANPA0000, FRANPE0000) | CISPR 32: 2015 + COR1:2016 Class B | EMC |
| PASS | Australia/New Zealand | RCM (FRANPG0000) | AS/NZS CISPR32:2015 + AMD1:2019 | EMC |

| Result | Region | Agency | Standard | Category |
|---|---|---|---|---|
| PASS | Taiwan | BSMI (FRANBP0000, FRANPA0000) | CNS13438(95年版) | EMC |
| PASS | Taiwan | BSMI (FRANPE0000, FRANPG0000) | CNS15936(105年版) | EMC |
| PASS | South Korea | KCC | KS C 9832:2019, KS C 9835:2019 | EMC |
| PASS | N/A | Testing Fee in 3rd Party Lab | ISO/IEC 17025:2017 | EMC |
| PASS | EU | CB | IEC 62368-1:2014 (Second Edition), IEC 62368-1:2018 (Third Edition) | Safety |
| PASS | USA | Nemko CCL | UL 62368-1, 3rd Edition, CAN/CSA C22.2 No. 62368-1-19, 3rd Edition | Safety |
| PASS | Taiwan | BSMI (FRANBP0000, FRANPA0000) | CNS14366-1(99/09/30) | Safety |
| PASS | Taiwan | BSMI (FRANPE0000, FRANPG0000) | CNS15598-1(109) | Safety |
| PASS | South Korea | KC Safety | KC62368-1(2021-08) | Safety |
| PASS | USA | FCC | ANSI/IEEE C95.1-1992, FCC Part 15, Subpart C 15.247, FCC Part 15, Subpart E 15.407 | RF |
| PASS | Canada | IC | RSS102 Issue 5, RSS-247 Issue 2 Feb. 2017, RSS-Gen Issue 5, Amendment 2, February 2021, RSS-248, issue 1 Nov, 2021 | RF |
| PASS | EU | CE (FRANBP0000, FRANPE0000, FRANPA0000) | EN 300 328 V2.2.2, EN 300 893 V2.1.1, EN300 440 V2.2.1:2018, Draft EN 303 687 V1.0.0: 2022, EN 50566:2017, EN 62209-2: 2010, EN 62479: 2010, EN 50663: 2017 | RF |
| PASS | EU | CE (FRANPG0000) | EN 300 328 V2.2.2, EN 300 893 V2.1.1, EN300 440 V2.2.1:2018, Draft EN 303 687 V1.0.0: 2022, EN 50566:2017, EN 62209-2: 2010, EN 62479: 2010, EN 50663: 2017 | RF |
| PASS | Australia/New Zealand | ACMA (FRANBP0000, FRANPE0000, FRANPA0000) | AS/NZS 4268:2017, AS/NZS 2772.2:2011 | RF |
| PASS | Australia/New Zealand | ACMA (FRANPG0000) | AS/NZS 4268:2017, Radiocommunications Equipment (Gerneral) Rules 2021 | RF |
| PASS | Taiwan | NCC | LP0002 | RF |

| Result | Region | RF | EMC | Green | Safety |
|---|---|---|---|---|---|
| PASS | Global | CE | CE | RoHS, REACH, Halogen Free Requirement | CB |
| PASS | European Union | CE | CE | ErP lot3 or 6/26, WEEE | CB |
| PASS | United Kingdom | UKCA | UKCA | None | CB |
| PASS | United States | FCC | FCC | DOE & CEC BCS, CEC | Nemko CCL |

| | | | | Computer, California Prop 65, E-Star, | |
|---|---|---|---|---|---|
| PASS | Canada | IC | FCC | NRCan BCS (Energy Star Canada) | Nemko CCL |
| PASS | Japan | MIC | VCCI | JEL | None |
| PASS | Korea | KCC | KCC | KES | KC |
| PASS | Singapore | iMDA | CE | None | None |
| PASS | Taiwan | NCC | BSMI | BSMI-RoHS | BSMI |
| PASS | Australia | ACMA | CE | AUZ/NZ MEPS | None |
| PASS | New Zealand | ACMA | CTICK | AUZ/NZ MEPS | None |

## EMC Declarations of Conformity

EMC Emissions Class refers to one of the following use environments:

 EMC Class B products are intended for use in residential/domestic environments but may also be used in non-residential/non-domestic environments.

## RF Classification

| RF OUTPUT | Model Number: | Max Output Power: dBuA/m | CLASSIFICATION |
|---|---|---|---|
| **LAPTOP** | **FRANBP0000 FRANPA0000, FRANPE0000, FRANPG0000** | | **System** |
| **MAINBOARD** | **FRANFG0000** | **N/A** | **Peripheral** |
| **MAINBOARD** | **FRANMA0000** | **N/A** | **Peripheral** |
| **MAINBOARD** | **FRANGJ0000** | **N/A** | **Peripheral** |
| **KEYBOARD** | **FRANBK0000** | **N/A** | **Peripheral** |
| **TOUCHPAD** | **FRANFT0001** | **N/A** | **Peripheral** |
| **CAMERA** | **FRANCPPA01** | **N/A** | **Peripheral** |
| **SPEAKER** | **FRANBX0001** | **N/A** | **Peripheral** |
| **DISPLAY** | **FRANFX0001** | **N/A** | **Peripheral** |
| **EXPANSION CARD_HDMI** | **FRACCHBZ01** | **N/A** | **Peripheral** |
| **EXPANSION CARD_USBC** | **FRACCCBZ01** | **N/A** | **Peripheral** |

| EXPANSION CARD_USBA | FRACCABZ01 | N/A | Peripheral |
|---|---|---|---|
| EXPANSION CARD_Display Port | FRACCDBZ01 | N/A | Peripheral |
| EXPANSION CARD_MICRO SD | FRACCMBZ01 | N/A | Peripheral |
| 1TB Expansion Card | FRACCFBZ0A | N/A | Peripheral |
| 250GB Expansion Card | FRACCFBZ02 | N/A | Peripheral |
| Ethernet Expansion Card | FRACCTBZ00 | N/A | Peripheral |

NOTE:  All of the items categorized as peripheral have been certified as unintentional radiators and comply with 47 CFR § 15.

NOTE: 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, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

# Framework™ Laptop Declaration of Conformity

This product has been determined to be compliant with the applicable standards, regulations, and directives for the countries where the product is marketed. The product is affixed with regulatory marking and text as necessary for the country/agency. All certifications pertain to Model Number: FRANBP0000, FRANPA0000, FRANPE0000, FRANPG0000.

# European Union

$C\epsilon$

Hereby, Framework Computer Inc declares that Framework Laptop, FRANBP0000, FRANPA0000, FRANPE0000, FRANPG0000  is in compliance with the essential requirements and other relevant provisions of Radio Equipment Directives: 2014/53/EU, RoHS Directive 2011/65/EU, Ecodesign Directive 2009/125/EC

The following Safety and Health standards have been applied:

Article 3.1a: EN IEC 62368-1:2020+A11:2020  and EN 50566:2017

Article 3.1a: EN 301 489-1 V2.2.3 and EN 301 489-17 V 3.2.4

Other Tests: EMC - CISPR 32/CISPR 35, EN55032/55035, Regulation (EC) No. 1275/2008, Regulation (EU) 2023/826, EN 50564:2011, IEC 62301:2011, EN50581:2012, IEC 63000:2018, REACH

The EC Declaration of Conformity can be referenced at the below link: https://frame.work/support

# United States



This device complies with FCC CFR Title 47, Part 15, Subpart B, Class B 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.

# Canada

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.e

# United Kingdom



For UK only: One Creechurch Place, London EC3A 5AF

# Taiwan

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： 筆記型電腦 ，型號（型式）：

Equipment Name: Framework Computer　　Type Designation (Type):　FRANBP0000, FRANPA0000, FRANPE0000, FRANPG0000

| 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) |
| 纜線 Cables | ─ | ○ | ○ | ○ | ○ | ○ |
| 機殼/其他 Chassis/Other | ─ | ○ | ○ | ○ | ○ | ○ |
| 輸入/輸出印刷電路組件 I/O PCAs | ─ | ○ | ○ | ○ | ○ | ○ |
| 液晶顯示器 (LCD) 面板 Liquid crystal display (LCD) panel | ─ | ○ | ○ | ○ | ○ | ○ |
| 記憶體 Memory | ○ | ○ | ○ | ○ | ○ | ○ |
| 主機板、處理器、散熱器 Motherboard, processor, heat sinks | ─ | ○ | ○ | ○ | ○ | ○ |
| 電源組 Power pack | ─ | ○ | ○ | ○ | ○ | ○ |
| 電源供應器 Power supply | ─ | ○ | ○ | ○ | ○ | ○ |
| 儲存裝置 Storage Devices | ─ | ○ | ○ | ○ | ○ | ○ |
| 無線裝置 Wireless Devices | ─ | ○ | ○ | ○ | ○ | ○ |

備考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.

備考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: The "○" indicates that the percentage content of the restricted substance does not exceed the percentage of reference value of presence.

備考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.

使用過度恐傷害視力
⑴ 使用 30 分鐘請休息 10 分鐘。
⑵ 未滿 2 歲幼兒不看螢幕，2 歲以上每天看螢幕不要超過 1 小時。

取得審驗證明之低功率射頻器材，非經核准，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。低功率射頻器材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。前述合法通信，指依電信管理法規定作業之無線電通信。低功率射頻器材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。

應避免影響附近雷達系統之操作。
高增益指向性天線只得應用於固定式點對點系統。

# Accessory Technical and Certification Information

**Power Cord Technical Information**

| | | |
|---|---|---|
| Laptop Model Number | FRANBP0000, FRANPA0000, FRANPE0000, FRANPG0000 | |
| Adapter Kit Model Number | FRANCEPH0F, FRANCEPH0Q, FRANCEPH0Z, FRANCEPH0T, FRANCEPH0G<br><br>FRANCHPH0B, FRANCHPH0G, FRANCHPH0F, FRANCHPH0Z, FRANCHPH0Q, FRANCHPH0T | |
| Power Adapter Body | FRANBCPH01 | |
| Input Voltage | 110-240 VAC | |
| Output Voltage | 3.3V-20V | PPS support |
| Input Current (Maximum) | 1.5A | |
| Input Frequency | 50-60hz | |
| Rated Output Current (Maximum) | 3A | |
| Maximum Power | 60W | |
| No load power | <0.15W | CoC Tier 2 |
| Protocol | USB PD 3.0 | |
| Output current | 3A | |
| Output receptacle | USB-C | |
| Input receptacle | IEC C6 | non-polarized |
| AC cable length | 1.0m | |

**Power Cord Certification Information**

| Result | Region | Directive | Standard |
|---|---|---|---|
| PASS | USA/Canada | UL+CB via UL | UL 60950-1, 2nd Edition ,CAN/CSA C22.2 No. 60950-1-07, 2nd Edition<br>UL 62368-1, 2nd Edition, CAN/CSA C22.2 No. 62368-1-14, 2nd Edition<br>IEC 60950-1:2005 (Second Edition) + AMD 1:2009 + AMD 2:2013<br>IEC 62368-1:2014 (Second Edition) |
| PASS | USA/Canada | FCC + ICES | 47 CFR FCC Part 15 Subpart B (Class B)<br>ICES-003 Issue 7 : October 2020 (Class B) |
| PASS | USA | NRCan, CEC, DOE | US DOE:  Office of Energy Efficiency and Renewable Energy 10 CFR Parts 429 and 430<br>US CEC:  California Code of Regulations, Title 20, Division 2, Chapter 4, Article 4. Appliance Efficiency Regulations, Sections 1601 through 1609 |
| PASS | Canada | Energy Efficiency Regulations | NRCan:  Amendment 14 to the Energy Efficiency Regulations for External Power Supplies in the Canada Gazette, Part II<br>Quebec: O.C.1394-2018 in GAZETTE OFFICIELLE DU QUEBEC, December 12, 2018, Vol. 150, No.50 |
| PASS | Australia/New Zealand | GEMS | AS/NZS4665.1-2005+A1:2009<br>AS/NZS4665.2-2005+A1:2009 |
| PASS | Australia/New Zealand | RCM | AS/NZS CISPR 32 ; AS/NZS 62368.1 |
| PASS | EU | ErP, CoC | EU: COMMISSION REGULATION (EU) 2019/1782 of 1 October 2019<br>EU: Code of Conduct on Energy Efficiency of External Power Supplies Version 5 |
| PASS | EU | CE EMC, CE LVD (CB) | EN 55032:2015+AC:2016, Class B +EN 55024:2010 +A1:2015 + EN55035:2017+EN 301489-1<br><br>EN 62368-1:2014 + A11:2017 |
| PASS | Taiwan | BSMI | CNS13438(95年版)<br>CNS14336-1(99年版)<br>CNS15663(102年版) |
| PASS | Singapore | PSB | IEC 62368-1:2014 |
| PASS | South Korea | KCC+KC<br><br>K-MEPS via KTC | K60950-1<br><br>KN32,KN35 |
| PASS | Mexico | NYCE | NOM-001-SCFI-2018/ NMX-I-60950-1-NYCE-2015<br>NOM-029-ENER-2017 |
| PASS | Japan | PSE(PHC) via JET | Appendix 12 J62368-1 (H30), J55032(H29) and J3000(H25) |

Framework's products are provided with the power cord and user documentation  suitable for the intended country of delivery. Products that are relocated to other countries should use nationally certified power cords and

plugs to ensure safe operation of the product. Contact Framework to determine if alternate power cords or user documentation in other languages is available for your market.

## Battery Technical Information

| Framework Model Number | Description | Type | Battery Weight (Kg) |
|---|---|---|---|
| FRANBB0000 (Framework Laptop) | 55Wh | Rechargeable Lithium Ion | <10Kg |
| FRANGWAT01 (Framework Laptop Battery 61Wh) | 61Wh | Rechargeable Lithium Ion | <10Kg |

## Battery Certification Information

| | | | |
|---|---|---|---|
| PASS | Global | UN38.8 | 1. UN Recommendations on transport of dangerous goods. Manual of tests and Criteria ST/SG/AC.10/11/Rev. 6/Amend.1 38.3 |
| PASS | Global | UL2054 | USR, CNR - UL2054+UL/CSA62368 |
| PASS | Global | UL1642 | USR – UL 1642 Investigation for Secondary, lithium-ion cell |
| PASS | Global | PI965 | 1. IATA Dangerous Goods Regulation (61st Edition) 2. IATA Dangerous Goods Regulation (62nd Edition) 3. IMO International Maritime Dangerous Goods Code (2018) |
| PASS | EU | Battery Directive | EU directive 2006/66/EC and its amendment |
| PASS | EU | REACH | Regulation (EC) No 1907/2006 |
| PASS | Taiwan | BSMI | CNS 15364 (102) |
| PASS | Canada | CB-IEC | 1. IEC 62133-2:2017 2. IEC 62368-1:2014 |
| PASS | USA | CTIA-IEE1625 | 1. IEEE 1625: 2008 Standard for Rechargeable Batteries for Multi-Cell Mobile Computing Devices. 2. CTIA Certification Requirements for Battery System Compliance to IEEE1625: 2008/October 2020, Revision 1.12.1 |
| PASS | USA | UL1642 | UL2054 |
| PASS | USA | RoHS + HF | 1. 2011/65/EU 2. (EU) 2015/863 3. RoHS Directive 2011/65/EU with amendment (EU) 2015/863 |

| | | | 4. IEC 62321-3-1:2013<br>5. EN 14582:2016 |
|------|-----------|-----------------------------------------------------------|---------------------------------------------------------------------------------|
| PASS | Korea | KC | KC62133-2(2020-07) |
| PASS | Japan | PSE | METI Electrical Appliance and Material Safety Law Appendix 9 |
| PASS | EU | Electromagnetic Compatibility Directive (EMC) 2014/30/EU. | 1. EN 55032:2015 + A11:2020<br>2. EN 55035:2017<br>3. EN 55024:2010 +A1:2015 |
| PASS | Australia | RCM | 4. EN 55032:2015<br>5. A11:2020 |

**Expansion Card Technical Information**

| Product Name | Model Number: | Input Voltage/Current | CLASSIFICATION |
|--------------|---------------|-----------------------|----------------|
| EXPANSION CARD_HDMI | FRACCHBZ01 | USB Type C to HDMI: 5Vdc/700mA | Peripheral |
| EXPANSION CARD_USBC | FRACCCBZ01 | N/A | Peripheral |
| EXPANSION CARD_USBA | FRACCABZ01 | N/A | Peripheral |
| EXPANSION CARD_250GB | FRACCFBZ02 | USB Type C to 250GB: 5Vdc/330mA | Peripheral |
| EXPANSION CARD_1TB | FRACCFBZ0A | USB Type C to  1TB: 5Vdc/400mA | Peripheral |
| EXPANSION CARD_MICRO SD | FRACCMBZ01 | USB Type C to MicroSD: 5Vdc/600mA | Peripheral |
| EXPANSION CARD_DisplayPort | FRACCDBZ01 | USB Type C to DP: 5Vdc/450mA | Peripheral |
| EXPANSION CARD_ETHERNET | FRACCTBZ00 | USB Type C to Ethernet: 5Vdc/185mA | Peripheral |

**Expansion Card Certification Information- Needs to be updated per Bizlinks test results**

SKUS: FRACCFBZ0A, FRACCFBZ02, FRACCDBZ01, FRACCHBZ01, FRACCMBZ01, FRACCJBZ01

| Status: | Region | Test | Test Specification |
|---------|--------|------|--------------------|
| PASS | EU | CE - Directive 2014/30/EU | EN 55032:2015 +A11:2020, Class B<br>EN 61000-3-2:2014 (Not Applicable)<br>EN 61000-3-3:2013 (Not Applicable)<br>EN 55024:2010<br>EN 55024:2010 +A1:2015<br>EN 55035:2017 +A11:2020<br>EN 61000-4-2:2009 / IEC 61000-4-2:2008 ED. 2.0<br>EN 61000-4-3:2006 +A1:2008 +A2:2010 / IEC 61000-4-3:2010 ED. 3.2 |

| | | | EN 61000-4-4:2012 / IEC 61000-4-4:2012 ED. 3.0 (Not Applicable) EN 61000-4-5:2014 +A1:2017 / IEC 61000-4-5:2014 +A1:2017 ED. 3.0 (Not Applicable) EN 61000-4-6:2014 +AC:2015 / IEC 61000-4-6:2013 ED. 4.0 (Not Applicable) EN 61000-4-8:2010 / IEC 61000-4-8:2009 ED. 2.0 EN 61000-4-11:2004 +A1:2017 / IEC 61000-4-11:2004 +A1:2017 ED. 2.0 (Not Applicable) |
|---|---|---|---|
| PASS | EU | CE - CB Scheme | IEC 60950-1:2005, AMD1:2009, AMD2:2013 |
| PASS | EU | CE- CB Scheme | IEC 62368-1:2014 |
| PASS | Aus/NZ | CISPR, AS/NZS CISPR | CISPR 32:2015 +COR1:2016, Class B AS/NZS CISPR 32:2015, Class B |
| PASS | Canada | ICES | ICES-003:2020 Issue 7, Class B ICES-Gen:2018 Issue 1+A1:2021 ANSI C63.4-2014 amended as per ANSI C63.4a-2017 |
| PASS | USA | FCC | 47 CFR FCC Part 15, Subpart B, Class B ANSI C63.4:2014 |
| PASS | Korea | Korea | Clause 3, Article 58-2 of Radio Waves Act. |
| PASS | Taiwan | BMSI | CNS 13438 –乙類(095/06/01 年版 |
| PASS | Japan | VCCI | VCCI-CISPR 32:2016, Class B |

**DATASHEET RESPONSIBLE PARTY NAME AND ADDRESS**

| Responsible Party | Address: | Website |
|---|---|---|
| **Framework Computer Inc** | **447 Sutter St. PMB 135, San Francisco, CA, 94108-4618, United States +1 (415) 475 - 3769** | **https://frame.work** |

# End of

# Life Product Disposal

At the end of this product's life, do not dispose of this product in your general household waste. Instead, in order to prevent possible harm to the environment or human health from uncontrolled waste disposal, please dispose of this product separately in accordance with your local laws and regulations.

For more information on the separate collection systems for waste electrical and electronic equipment that are available for consumers near your home free of charge, please contact your local municipality. You can also contact the retailer from which you purchased your Framework Laptop  as they may have recycling services or may be part of a specific recycling program.

If disposed of properly, this product will be treated in an environmentally sound manner at a licensed recycling plant and its components will be recovered, recycled or reused in the most efficient manner in compliance with the requirements of the Directive on Waste Electrical and Electronic Equipment (2012/19/EU) of 14 February, 2014 (as subsequently amended or replaced) ("2012/19/EU").

## Battery Disposal

Damaged or unusable batteries must be disposed of in a container specially reserved for this purpose. When disposing of the battery, follow appropriate local guidelines and regulations. For further information, contact your local solid waste authority.

## WEEE



The trash can symbol on the Framework Laptop  or on its packaging indicates that it must not be disposed of with your other household waste, pursuant to 2012/19/EU. Instead, it is your responsibility to dispose of your waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, your household waste disposal service, or the shop where you purchased the product.

## Energy Star

ENERGY STAR is a U.S. Environmental Protection Agency voluntary program that helps businesses and individuals save money and protect our climate through superior energy efficiency. Products that earn the ENERGY star prevent greenhouse gas emissions by meeting strict energy efficiency criteria or requirements set by the U.S. EPA's enhanced product certification process to ensure that products marked with the ENERGY STAR logo are ENERGY Star certified per applicable ENERGY STAR guidelines. The following logo appears on all ENERGY STAR- Certified computers:

A key ENERGY STAR requirement for computer products is power management features that significantly reduce energy consumption when the product is not in use. Power management allows the computer to enter "sleep" mode, or "low power" mode, after a defined period of inactivity. The power management features have been preset as follows when the computer is operating on AC Power:

| Power Management | Time to Activate display sleep mode | Time to activate computer sleep mode (min) | Resuming from sleep mode |
|---|---|---|---|
| Laptop | Less than or equal to 10 minutes | Less than or equal to 10 minutes when on AC | Press the power button to exit sleep mode.<br><br>If wake-on-lan (WOL) is enabled, the system can resume from sleep mode in response to a network signal. |

Additional Power Save Features:

(Only Applies to FRANBP0000, FRANPE0000, FRANPG0000)

| Intel Speed Shift Technology | Default: On<br><br>This option is used to Enable/disable intel speed shift technology. |
|---|---|
| USB Wake Up Support | Default: On<br><br>Enables USB devices to wake up the system from standby. |
| Block Sleep | Default: Off<br><br>This option lets you block entering to sleep in the OS Environment. |

## Use of Logos and Trademarks

### Bluetooth

The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Framework is under license.