

# Karbon 700 Safety/Compliance

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## Regulatory Compliance and Safety Information

This document provides international regulatory and safety compliance information for the Logic Supply Rugged Fanless PC model K700 computer system. This information also covers models xxxxxK700xxxxxxxxxxxxxx (where x is any alphanumeric character, "-" or blank designating configuration differences).

### Safe Use and Installation Instructions

1. Do not open or modify the device. The device uses components that comply with FCC and CE regulations. Modification of the device may void these certifications.
2. Install the device securely. Be careful handling the device to prevent injury and do not drop.
3. Wall or ceiling mounting device requires use of a mounting plate or bracket. Plate or bracket must be of metal construction and have a minimum thickness of 1mm.
4. Use M4x0.5mm Flat Head screws to attach mounting plate or mounting brackets to threaded holes on bottom or rear of chassis. Screws should be minimum length of 4mm. Add 1mm of screw length for every mm of additional thickness of plate or bracket beyond 1.5mm.
5. Ambient operating temperature must be between -40 °C to 70 °C with a non-condensing relative humidity of 10-90%. Operational temperature is dependent on component selection including power adapter. See Table 1 below for derating.
6. The device can be stored at temperatures between -40 °C to 85 °C.
7. Keep the device away from liquids and flammable materials.
8. Do not clean the device with liquids. The chassis can be cleaned with a cloth.
9. Allow at least 2 inches of space around all sides of the device for proper cooling. If device is mounted to vertical surface then recommended device orientation is so that heatsink fins allow air to rise unobstructed. Alternative orientations may result in reduced operational temperature range.
10. This device is intended for indoor operation only.
11. Use UL Listed external power supply with rated output 9-48 Vdc.
12. Install the device only with shielded network cables.
13. Service and repair of the device must be done by qualified service personnel. This includes, but is not limited to, replacement of the CMOS battery. Replacement CMOS battery must be of the same type as original.
14. Proper disposal of CMOS battery must comply with local governance.



**WARNING:** There is danger of explosion if the CMOS battery is replaced incorrectly. Disposal of battery into fire or a hot oven, or mechanically crushing or cutting of a battery can result in an explosion.

## Précautions et guide d'installation

1. Ne pas ouvrir ou modifier l'appareil. L'appareil utilise des composants conformes aux réglementations FCC et EC. La modification de l'appareil peut annuler ces certifications.
2. Installez l'appareil en toute sécurité. Soyez prudent lors de la manipulation de l'appareil pour éviter les blessures et ne pas faire tomber.
3. Le montage au mur ou au plafond nécessite l'utilisation d'une plaque de montage ou d'un support. La plaque ou le support doit être en métal et doit avoir une épaisseur minimale de 1 mm.
4. Utilisez des vis à tête plate M4x0,5mm pour fixer la plaque de montage ou les supports aux trous filetés situés au bas ou à l'arrière du châssis. Les vis doivent avoir une longueur minimale de 4 mm. Ajoutez 1 mm de longueur de vis pour chaque mm d'épaisseur supplémentaire de plaque ou de support dépassant 1,5 mm.
5. La plage de températures de fonctionnement doit être de -40 °C à 70 °C avec une humidité relative de 10 à 90% sans condensation. La température de fonctionnement dépend du choix du composant, y compris de l'adaptateur d'alimentation. Voir le tableau 1 ci-dessous pour le déclassement.
6. La plage de températures de stockage doit être de -40 °C à 85 °C.
7. Gardez l'appareil à l'écart des liquides et des matières inflammables.
8. Ne nettoyez pas l'appareil avec des liquides. Le châssis peut être nettoyé avec un chiffon.
9. Laissez au moins 5 cm d'espace autour de tous les côtés de l'appareil pour un refroidissement correct. Si l'appareil est monté sur une surface verticale, l'orientation recommandée est telle que les ailettes du dissipateur de chaleur permettent à l'air de monter sans obstruction. Les orientations alternatives peuvent entraîner une réduction de la plage de température de fonctionnement.
10. Cet appareil est conçu uniquement pour une utilisation en intérieur.
11. Utilisez une alimentation externe listée UL avec une sortie nominale de 9-48 Vdc.
12. Installez l'appareil uniquement avec des câbles réseau blindés.
13. L'entretien et la réparation de l'appareil doivent être effectués par du personnel qualifié. Cela inclut, sans toutefois s'y limiter, le remplacement de la batterie CMOS. La batterie CMOS de remplacement doit être du même type que l'originale.
14. La mise au rebut des batteries usagées doit être réalisée conformément aux réglementations environnementales.



**ATTENTION:** Risque d'explosion si la batterie est remplacée par une batterie de type incorrect. Les batteries doivent être recyclées dans la mesure du possible.

Table 1 - Operational Temperature rating by Included power adapter

Power Adapter Model	Description	Operating Temperature
GST280A24	24Vdc, 11.67A AC/DC Switching Adapter	-30 to 70°C
GST160A20	20Vdc, 8A AC/DC Switching Adapter	-30 to 70°C
GST120A20	20Vdc, 6A AC/DC Switching Adapter	-30 to 70°C
No Adapter	---	-40 to 70°C

## Declaration of Conformity

### FCC

This device complies with part 15 of the FCC rules as a Class A device. 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.

### ISED (Innovation, Science and Economic Development 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.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

### CE

This equipment complies with all application European Union (CE) directives if it has a CE marking. For this device to remain CE compliant, only CE compliant parts can be installed and proper cables and cabling techniques are required.

in accordance with the following Directive(s):

Electromagnetic Compatibility (2014/30/EU)  
Low-Voltage (2014/35/EU)  
RoHS 2 (2011/65/EU)  
Radio Equipment (2014/53/EU) - Only applicable for configurations with wireless transmitters

is in conformity with the applicable requirements of the following documents:

EN 55032:2015/AC:2016 Class A  
EN 55035:2017  
EN 50121-3-2:2019  
EN 61000-3-2:2014 Class D  
EN 61000-3-3:2013  
EN 61000-4-2:2009  
EN 61000-4-3:2006+A1:2008+A2:2010  
EN 61000-4-4:2012  
EN 61000-4-5:2014+A1:2017  
EN 61000-4-6:2014+AC:2015  
EN 61000-4-8:2010  
EN 61000-4-11:2004+A1:2017  
EN 61000-6-4:2018  
EN 62368-1:2014  
EN 301 489-1 V2.2.0 (2017-03) Draft  
EN 301 489-17 V3.2.0 (2017-03) Draft

Reports: GM219010c, GM219039c, GM219040x

I hereby declare the equipment named above has been designed and/or tested to comply with the relevant sections of the above referenced specifications. The unit complies with all applicable Essential Requirements of the Directives.

By:

Jeremy Psauté Date 2019-08-13  
Jeremy Psaute  
Regulatory Engineer

