Safety Instructions
Quick Reference Guide

May 2025, Revision 036

Strato Pi Base
Strato Pi UPS
Strato Pi CM
Strato Pi CM Duo
Strato Pi Max

Be sure to always remove the power supply before inserting or removing the Raspberry Pi from the Strato Pi.

Follow all applicable electrical safety standards, guidelines, specifications and regulations for installation, wiring and operations of Strato Pi.

Carefully and fully read the Strato Pi user guide before installation:

https://www.sferalabs.cc/strato-pi/

Strato Pi is not authorised for use in safety-critical applications where a failure of the product would reasonably be expected to cause personal injury or death. Safety-critical applications include, without limitation, life support devices and systems, equipment or systems for the operation of nuclear facilities and weapons systems. Strato Pi is neither designed nor intended for use in critical military or aerospace applications or environments and for automotive applications or environment. Customer acknowledges and agrees that any such use of Strato Pi is solely at Customer's risk, and that Customer is solely responsible for compliance with all legal and regulatory requirements in connection with such use.

Sfera Labs S.r.l. may make changes to specifications and product descriptions at any time, without notice. The product information on the website or materials is subject to change without notice.

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Safety information

Carefully and fully read the user guide before installation and retain it for future reference.

Qualified personnel

The product described in this manual must be operated only by personnel qualified for the specific task and installation environment, in accordance with all relevant documentation and safety instructions. A qualified person should be capable of fully identifying all installation and operation risks and avoid potential hazards when working with this product.

Hazard levels

This manual contains information you must observe to ensure your personal safety and prevent damage to property. Safety information in this manual are highlighted by the safety symbols below, graded according to the degree of danger.



Indicates a hazardous situation which, if not avoided, **will** result in death or serious personal injury.



Indicates a hazardous situation which, if not avoided, **may** result in death or serious personal injury.



Indicates a hazardous situation which, if not avoided, can result in minor or moderate personal injury.



Indicates a situation which, if not avoided, can result in damage of property.

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Safety instructions

General safety instructions

Protect the unit against moisture, dirt and any kind of damage during transport, storage and operation. Do not operate the unit outside the specified technical data.

Never open the housing. If not otherwise specified, install in closed housing (e.g. distribution cabinet). Earth the unit at the terminals provided, if existing, for this purpose. Do not obstruct cooling of the unit. Keep out of the reach of children.



Life threatening voltages are present within and around an open control cabinet.

When installing this product in a control cabinet or any other areas where dangerous voltages are present, always switch off the power supply to the cabinet or equipment.



Risk of fire if not installed and operated properly.

Follow all applicable electrical safety standards, guidelines, specifications and regulations for installation, wiring and operations of this product.

The internal components could generate a substantial amount of heat. Ensure that the product is properly installed and ventilated to prevent overheat.

When present, an internal fan significantly improves the airflow and heat dissipation. Depending on external environment conditions, the fan could collect a significant amount of dust or other impurities, that could prevent it from spinning or could reduce its effectiveness. Periodically check that the fan is not blocked or partly obstructed.



The connection of expansion devices to this product may damage the product and other connected systems, and may violate safety rules and regulations regarding radio interference and electromagnetic compatibility.

Use only appropriate tools when installing this product. Using excessive force with tools may damage the product, alter its characteristics or degrade its safety.

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Battery

This product uses a small lithium non-rechargeable battery to power its internal real time clock (RTC). Some models also optionally uses an external rechargeable lead-acid battery for the uninterruptible power supply (UPS).



Improper handling of lithium batteries can result in an explosion of the batteries and/or release of harmful substances.

Worn-out or defective batteries can compromise the function of this product.

Replace the RTC lithium battery before it is completely discharged. The lithium battery must be replaced only with an identical battery. See the "Replacing the RTC backup battery" section for instructions.

Do not throw lithium batteries into fire, do not solder on the cell body, do not recharge, do not open, do not short-circuit, do not reverse polarity, do not heat above 100°C and protect from direct sunlight, moisture and condensation.

Only use a lead-acid battery with electrical ratings recommended in the technical specifications for this product.

Follow the battery manufacturer's instructions when installing the external UPS battery (not provided).

Dispose of used batteries according to local regulations and the battery manufacturer's instructions.

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Warranty

Sfera Labs S.r.l. warrants that its products will conform to the specifications. This limited warranty lasts for one (1) year from the date of the sale. Sfera Labs S.r.l. shall not be liable for any defects that are caused by neglect, misuse or mistreatment by Customer, including improper installation or testing, or for any products that have been altered or modified in any way by Customer. Moreover, Sfera Labs S.r.l. shall not be liable for any defects that result from Customer's design, specifications or instructions for such products. Testing and other quality control techniques are used to the extent that Sfera Labs S.r.l. deems necessary.

Warranty will not apply in the event of:

- installation, maintenance and use contrary to the instructions and warnings provided by Sfera Labs S.r.l. or in conflict with legal regulations or technical specifications;
- damages occurred due to: defects and/or abnormalities of the electrical wirings, defects or abnormal distribution, failure or fluctuation of electrical power, abnormal environmental conditions (such as dust or smoke, including cigarette smoke) and damages related to air conditioning systems or humidity control systems;
- tampering;
- damage due to natural events or force majeure or not related to the original defects, such as damage due to fire, flood, war, vandalism and similar events;
- damage caused by use of the product outside of the limitations set in the technical specifications;
- removal, modification of the serial number of the products or any other action which prevents its unique identification;
- damage caused during transportations and shipment.

The complete Terms and Conditions document applicable to this product is available here:

https://www.sferalabs.cc/terms-and-conditions/

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Disposal

Waste Electrical & Electronic Equipment



(Applicable in the European Union and other European countries with separate collection systems). This marking on the product, accessories or literature indicates that the product should not be disposed of with other household waste at the end of their working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, separate these items from other types of waste and recycle them responsibly to promote the sustainable reuse of material resources. Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take these items for environmentally safe recycling. This product and its electronic accessories should not be mixed with other commercial wastes for disposal.

Strato Pi contains a small non rechargeable manganese dioxide lithium coin battery. This battery is not accessible from the outside. You should first remove the case body to gain access to the Strato Pi circuit board. Always remove the battery before disposing of this product.

Installation and use restrictions

Standards and regulations

The design and the setting up of electrical systems must be performed according to the relevant standards, guidelines, specifications and regulations of the relevant country. The installation, configuration and programming of the devices must be carried out by trained personnel.

The installation and wiring of connected devices must be performed according to the recommendations of the manufacturers (reported on the specific data sheet of the product) and according to the applicable standards.

All the relevant safety regulations, e.g. accident prevention regulations, law on technical work equipment, must also be observed.

Safety instructions

Carefully read the safety information section at the beginning of this document.

Set-up

For the first installation of the device proceed according to the following procedure:

- ✓ make sure all power supplies are disconnected
- ✓ install and wire the device according to the schematic diagrams on the specific product user guide
- ✓ after completing the previous steps, switch on the power supply and other related circuits.

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Conformity Information

EU

The declaration of conformity is available on the internet at the following address:

https://www.sferalabs.cc/strato-pi/

USA

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. 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 the dealer or an experienced radio/TV technician for help.

Shielded cables must be used with this equipment to maintain compliance with FCC regulations.

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.

CANADA

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

RCM AUSTRALIA / NEW ZEALAND

This product meets the requirements of the standard EN 61000-6-3 - Emission for residential, commercial and light-industrial environments.

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Compliance information for Raspberry Pi

Strato Pi contains a *Raspberry Pi 3 Model B* or *Raspberry Pi 3 Model B+* or *Raspberry Pi 4 Model B* or *Raspberry Pi Compute Module 4* or *Raspberry Pi 5* or *Raspberry Pi Compute Module 5* single board computer. These boards have WiFi and Bluetooth radios. They are user accessible and replaceable.

EU

Raspberry Pi 3 Model B, *Raspberry Pi 3 Model B+*, *Raspberry Pi 4 Model B*, *Raspberry Pi Compute Module 4*, *Raspberry Pi 5*, and *Raspberry Pi Compute Module 5* are in conformity with the essential requirements and other relevant requirements of the Radio Equipment Directive 2014/53/EU.

USA

Raspberry Pi 3 Model B FCC IDENTIFIER: **2ABCB-RPI32**

Raspberry Pi 3 Model B+ FCC IDENTIFIER: **2ABCB-RPI3BP**

Raspberry Pi 4 Model B FCC IDENTIFIER: **2ABCB-RPI4B**

Raspberry Pi Compute Module 4 FCC IDENTIFIER: **2ABCB-RPICM4**

Raspberry Pi 5 FCC IDENTIFIER: **2ABCB-RPI5**

Raspberry Pi Compute Module 5 FCC IDENTIFIER: **2ABCB-RPICM5**

The antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be colocated or operating in conjunction with any other antenna or transmitter, except in accordance with FCC multitransmitter product guidelines. This (WiFi DTS) device has 20 MHz bandwidth mode.

CANADA

Raspberry Pi 3 Model B IC CERTIFICATION No.: **20953-RPI32**

Raspberry Pi 3 Model B+ IC CERTIFICATION No.: **20953-RPI3BP**

Raspberry Pi 4 Model B IC CERTIFICATION No.: **20953-RPI4B**

Raspberry Pi Compute Module 4 IC CERTIFICATION No.: **20953-RPICM4**

Raspberry Pi 5 IC CERTIFICATION No.: **20953-RPI5**

Raspberry Pi Compute Module 5 IC CERTIFICATION No.: **20953-RPICM5**

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.

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