

Safety Notice & Product Certifications

Before you begin to use the SMBS-T4 Access Station Micro, please read the following instructions which contain important safety and regulatory information. Please keep these instructions in a safe place so that you can refer to them when needed.

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General safety instructions



WARNING: Avoid electric shock! Do not open the cover of this product. Opening or removing the cover may expose you to dangerous voltages.

Power source warning: A label on this product indicates the correct power source for this product. Operate this product only from an electrical outlet with the voltage and frequency indicated on the product label.

Regularly inspect the cable and connector for any kinks, breaks, bends, or other damage. Should you find any such damage, discontinue use of the cable.

If this product connects to cable wiring, be sure the cable system is grounded (earthed). Grounding provides some protection against voltage surges and built-up static charges. Protect the product from lightning. Eliminate AC mains overloads.

Never apply excessive force on the connector into a port, because this may cause damage that is not covered under the warranty. If the connector and port do not join with reasonable ease, they probably do not match. Check for obstructions and make sure that the connector matches the port and that you have positioned the connector correctly in relation to the port.

Provide ventilation and select a location: Remove all packaging material before applying power to the product. Do not place this apparatus on an unstable surface. Do not block ventilation openings.

Protect from exposure to moisture and foreign objects: Do not expose this product to dripping or splashing liquids, rain, or moisture **unless fitted with sealing cover**.

Do not drop or knock the product. Do not place objects on top of the product.

Unplug this product before cleaning. Do not use a liquid cleaner or an aerosol cleaner.

Do not use a magnetic/static cleaning device (dust remover) to clean this product.

Never push objects through the openings in this product. Foreign objects can cause electrical shorts that can result in electric shock or fire.

CAUTION: the product may become hot when in use. The product can be damaged if stored or operated outside of the temperature ranges (see datasheet). Avoid exposing the product to extreme temperatures or dramatic changes in temperature or humidity.



WARNING: This device has antitampering technology. Attempts to open the enclosure by unqualified personnel may render the device inoperable.

If you open the cover, the warranty will be void. This product contains no user-serviceable parts.

Interference with electronic equipment

This product, as any radio-transmitting equipment, may interfere with other electronic devices.

In any case, make sure you are using this product where it is authorized for use and in an authorized manner.

Specifications

RADIO CHARACTERISTICS	
Standard	Sigfox UNB Protocol for M2M and IoT
Max range of operating frequencies *	865 to 928 MHz
Max Receiver Sensitivity	-132dBm @ 100bps / -124dBm @ 600bps
Data Rate and Modulation	100/600 bps D-BPSK (UL) 600 bps GFSK (DL)
Max Transmit Power (EIRP)*	23 dBm
Antenna	Integrated
POWER	
Power Consumption	2.3W typical (Rx mode), 12.5W max peak
Power supply	Passive PoE 220/110VAC to 24VDC adaptor
Input DC voltage	11V to 26V
MECHANICAL AND ENVIRONMENTAL	
Casing dimensions (W, H, D)	186 x 159 x 108 mm (7.3 x 6.3 x 4.25 in)
Product weight	530g (1.16 lb)
Operating temperatures	-20°C to +55°C (-4°F to + 131°F)
Storage temperatures	-30°C to +85°C (-22°F to + 185°F)

(*) Note: The maximum frequency range and power setting will vary by channel and according to individual country regulations. Refer to the regulatory groups table for more details.

Country specific statements and certifications

- **CE**

CE Declaration of conformity:

Hereby, Sigfox declares that the radio equipment type SMBS-T4 is in compliance with Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following internet address: <https://resources.sigfox.com/document/smbs-t4-notice>

WEEE:



This marking on the product, accessories or literature indicates that the product and its electronic accessories should not be disposed of as unsorted household waste. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate these items from other types of waste in accordance with local environmental regulation. These items need to be recycled responsibly to promote sustainable reuse of material resources.

- **FCC**

This device complies with Part 15 of the FCC Rules and with Industry Canada license-exempt RSS standard(s).

- 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.

- Changes or modifications made to this equipment not expressly approved by (manufacturer name) may void the FCC authorization to operate this equipment.
- This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instructions for satisfying RF exposure compliance. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
- This equipment should be installed and operated with minimum distance of 20 cm between the radiator and your body.

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. 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.

FCC ID : 2ACK7-SMBST4

● Canada

"Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada.

To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropic radiated power (e.i.r.p.) is not more than that necessary for successful communication.

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."

This equipment should be installed and operated with minimum distance of 20 cm between the radiator and your body.

Conformément à la réglementation d'Industrie Canada, le présent émetteur radio peut fonctionner avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par Industrie Canada.

Dans le but de réduire les risques de brouillage radioélectrique à l'intention des autres utilisateurs, il faut choisir le type d'antenne et son gain de sorte que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne dépasse pas l'intensité nécessaire à l'établissement d'une communication satisfaisante.

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

Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 20 cm de distance entre la source de rayonnement et votre corps.

IC: 12204A-SMBST4

- **Japan**

Japanese Radio Law and Japanese Telecommunications Business Law Compliance.

This device is granted pursuant to the Japanese Radio Law (電波法) and the Japanese Telecommunications Business Law (電気通信事業法)

This device should not be modified (otherwise the granted designation number will become invalid).

This equipment is intended for installation in a restricted access location.

Operating channel: 32



- **Brazil**



XXXXX-YY-XXXXX

Este equipamento não tem direito à proteção contra interferência prejudicial e não pode causar interferência em sistemas devidamente autorizados

<http://www.anatel.gov.br>

• Taiwan

警語

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影響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,指一電信法規定作業之無線電通信低功率射頻電機需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。

Disclaimers

Sigfox shall not be held liable for any defect or failure of the Access-Station Micro due to a use of the product that is not appropriate and/or does not conform to the intended and normal use of such product, and/or to the instructions given herein or in the product manual.

All statements, information, specifications and recommendations in this manual are accurate at the time of printing but are subject to change without notice. The latest version of the documentation necessary to properly install and maintain the Access-Station Micro is available on demand and/or on the Sigfox web site.

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