M.2 LTE Module
X2-Series Expansion Board
User Guide

November 2026

Revision 003

X2BW10XM2Z *M.2 LTE Module X2-Series Expansion Board, without LTE Module*

X2BW10XM2ZA *with Telit LN920A12-WW LTE Cat 12 Data Card*

X2BW10XM2ZB *with Telit LN920A6-WW LTE Cat 6 Data Card*

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Before opening the Strato Pi Max enclosure, disconnect all power sources and any connection to external devices, including USB and Ethernet cables.

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

Carefully read this document and the Strato Pi Max User Guide before installation.

Strato Pi Max 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 Max 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 Max 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.

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http://www.sferalabs.cc

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Safety information

Carefully and fully read this 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.

DANGER

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

WARNING

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

CAUTION

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

NOTICE

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

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.

WARNING

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.

WARNING

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 Compute Module board could generate a substantial amount of heat when the software forces the CPU and/or GPU to operate at high load levels. Ensure that the product is properly installed and ventilated to prevent overheat.

The Strato Pi Max internal power supply could generate a substantial amount oh heat, particularly when subject to a significant amount of electrical load.

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.

NOTICE

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.

RF Exposure Information

This product contains an LTE radio module.

It has been designed and tested to comply with the applicable limits for human exposure to radio frequency (RF) energy as set out in the Radio Equipment Directive 2014/53/EU and the relevant harmonised standards. The following requirements must be met to ensure safe operation of the device:

- **Approved antennas only**: This equipment may only be used with the antennas supplied or expressly approved by Sfera Labs. Use of other antennas may result in non–compliance with RF exposure limits.
- **Separation distance**: To ensure compliance with RF exposure requirements, install the antennas at a minimum distance of 20 cm from persons during normal operation. The antenna must also be located at least 20 cm from the Strato Pi Max host device.
- **Fixed installation**: the product must be installed in a fixed location, inside a cabinet (typically a DIN-rail cabinet) with the LTE antenna installed outside of the cabinet. Ensure that the antenna is positioned and oriented so as to maintain the required separation distance from occupied areas.
- **Do not modify**: Do not attempt to modify or attach non-approved RF components, as this may increase RF exposure beyond the compliance limits.
- **Compatibility with Raspberry Pi Compute Module with WiFi and BT**: if the Raspberry Pi Compute Module installed in the Strato Pi Max host device has the WiFi and BT radio module, and WiFi or BT are used with the external antenna (only the original Raspberry Pi Antenna Kit is certified for use with the Compute Module installed in Strato Pi Max), install the LTE antenna at least 20 cm from the WiFi antenna.

WARNING

Risk of non–compliance with RF exposure limits if not installed and operated properly.

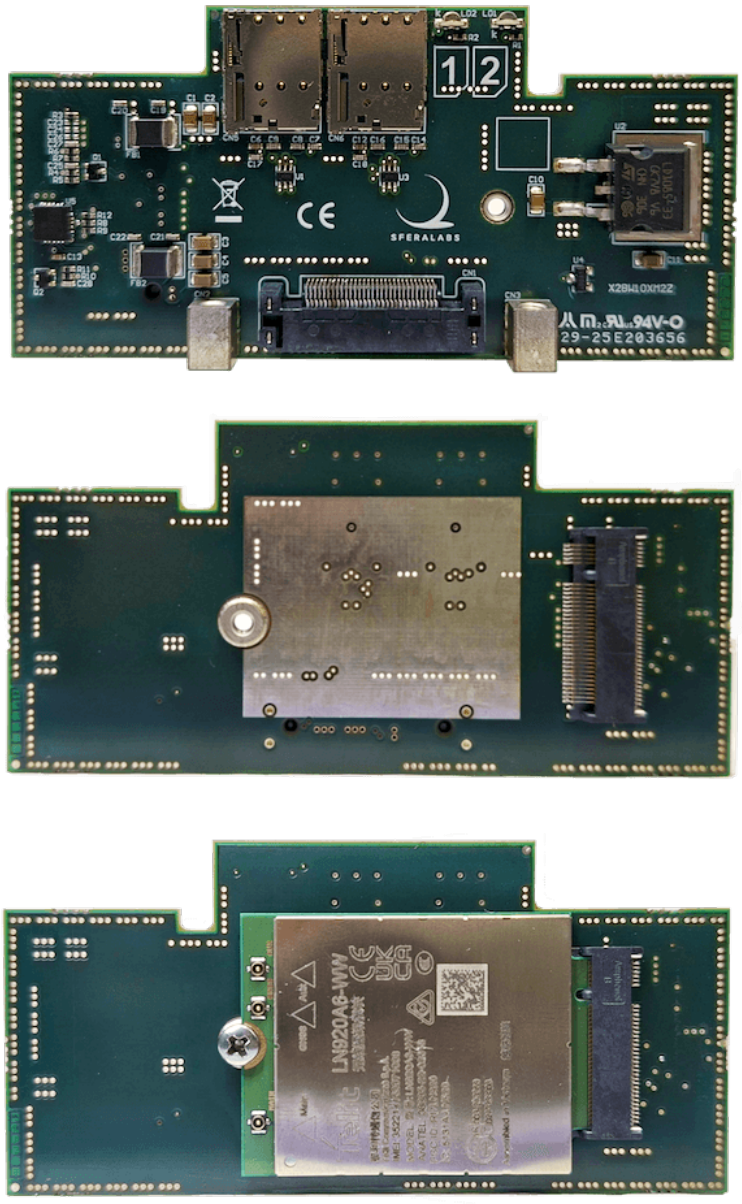
Introduction

The X2-Series X2BW10XM2Z M.2 LTE Module expansion board is a general-purpose carrier board for M.2 LTE modules, designed for integration in the Strato Pi Max XL and Strato Pi Max XS servers.

This board has been tested with two specific LTE Modules:

- Telit LN920A12-WW LTE Cat 12 Data Card
- Telit LN920A6-WW LTE Cat 6 Data Card.

This manual generally refers to Strato Pi Max XL and Strato Pi Max XS as Strato Pi Max, and to both LN920A12-WW and LN920A6-WW as LTE module.



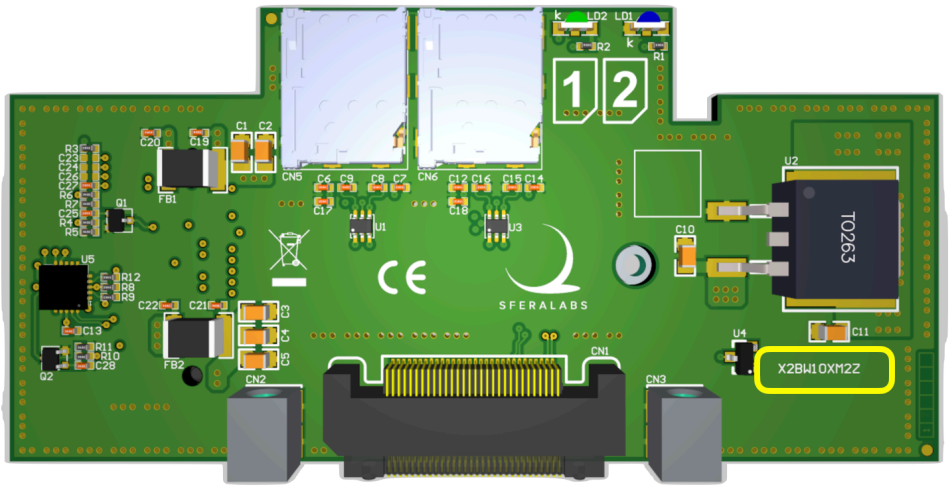
X2BW10XM2Z M.2 LTE MODULE X2-SERIES EXPANSION BOARD

Features

- Compatible with the Telit LN920A family of M.2 LTE data cards
- Two Nano SIM slots
- Control lines for LTE modem module power, reset, RF disable (airplane mode), GNSS disable and GPIO
- Front panel LEDs show power and network registration state.

Device identification

The circuit board is identified by the "**X2BW10XM2Z**" marking (front view). One or more alphanumeric characters may follow.



CIRCUIT BOARD IDENTIFICATION MARKINGS

When the X2BW10XM2Z board is installed in a Strato Pi Max, the provided identification plate must be permanently attached to the side of the case, opposite the original Strato Pi Max ratings and identification plate.



EXAMPLE IDENTIFICATION PLATES

Hardware setup

In order to install or remove the expansion board, the plastic DIN rail enclosure must be removed.

WARNING

Before opening the Strato Pi Max enclosure, wait until the Strato Pi Max turns off after power supply is removed.

NOTICE

Before opening the Strato Pi Max enclosure, disconnect all power sources and any connection to external devices, including USB and Ethernet cables.

Follow the Strato Pi Max User Guide installation instructions.

This expansion board can be installed in any slot, but only one X2BW10XM2Z board can be installed in Strato Pi Max.

Bill Of Material

Quantity	Supplied	Manufacturer	P/N	Description
1	With X2BW10XM2ZA	Telit Cinterion	LN920A12W02T020600	LN920A12-WW LTE Cat 12 Data Card
1	With X2BW10XM2ZB	Telit Cinterion	LN920A6W02T020600	LN920A6-WW LTE Cat 6 Data Card
3	With X2BW10XM2ZA or X2BW10XM2ZB	Taoglas	CAB.S02	200 mm MHF-4 to SMA(F) Bulkhead Straight Connector cable
1	No	Taoglas	MA256.A.LBI.001	3-in-1 GNSS and 2*4G MIMO Low Profile, Adhesive Mount Combination Antenna with 2m cable and SMA(M) Connectors
1	No	I-PEX	90435-001	MHF-4 plug insertion/extraction tool
1	Yes	-	M2,5x6	M2,5 6 mm screw for the M.2 LTE module
2	Yes	-	M3x6	M3 6 mm screws for the X2 expansion board

M.2 LTE Module Installation (X2BW10XM2Z only[1])

If the M.2 LTE module is not pre-installed, insert the LTE module in the M.2 connector on the back side of the X2BW10XM2Z board and use the screw provided with the expansion board to lock the module in place.

Using a specific MHF-4 plug insertion/extraction tool, like the I-PEX 90435-001 (not supplied), connect the three supplied Taoglas 200 mm MHF-4 to SMA(F) Bulkhead Straight Connector cables to the RF MHF-4 receptables on the LTE module.

Carefully align the board-to-board connectors and gently push the board in place. Note that the connectors could be damaged if not properly aligned during insertion or removal.

Insert and lock the SMA(F) connectors in the antenna connectors pre-cut openings (LTE-1, LTE-2 and GNSS) of the Strato Pi Max enclosure.

LN920 LTE Module	Strato Pi Max Enclosure
MAIN	LTE-1
AUX	LTE-2
GNSS	GNSS

RF CONNECTORS MARKINGS

Use the two screws provided with the expansion board to lock the board in place.

M.2 LTE Module Removal (X2BW10XM2Z only[2])

Follow the M.2 LTE module installation procedure in reverse order.

When separating the Strato Pi Max circuit board from the plastic enclosure, ensure that the MHF-4 to SMA(F) cables are not stressed.

Antenna and Connectors

The three antenna connectors, LTE-1, LTE-2 and GNSS are located on the high (H) side of the Strato Pi Max enclosure. All connectors are SMA(F).

Always connect all three connectors to the corresponding SMA(M) connectors of the Taoglas MA256.A.LBI.001 antenna.

[1] The user is not authorised to install or replace the LN920 module on the X2BW10XM2ZA or X2BW10XM2ZB boards.

[2] The user is not authorised to remove or replace the LN920 module on the X2BW10XM2ZA or X2BW10XM2ZB boards.

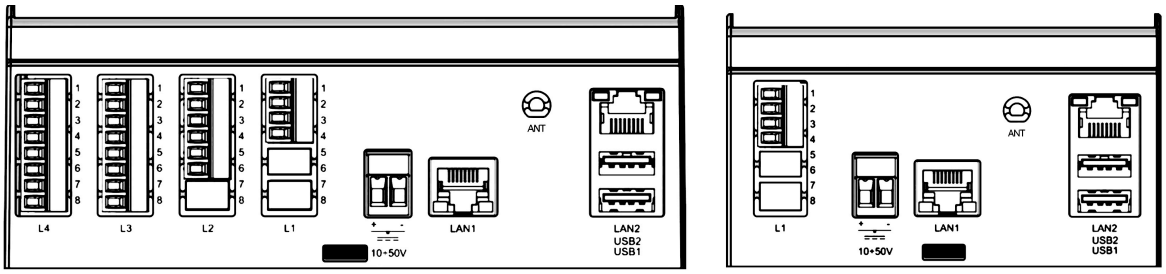
NOTICE

If the antenna is not correctly connected, malfunction or permanent damage to the antenna and M.2 LTE module is likely.

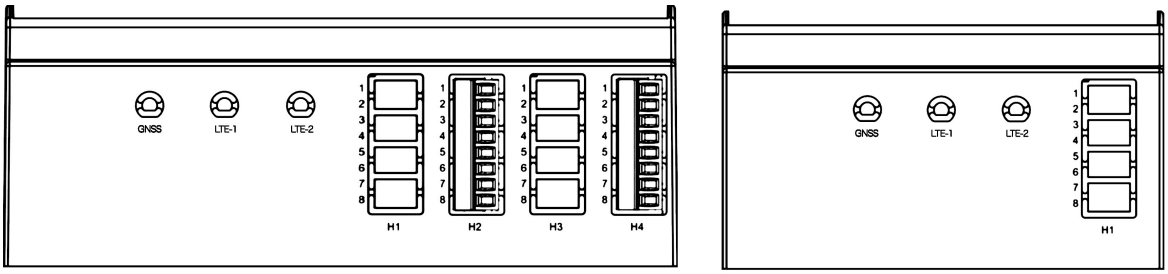
WARNING

The X2BW10XM2Z expansion board is certified for use with the Telit LN920A6-WW or LN920A12-WW modules and the Taoglas MA256.A.LBI.001 3-in-1 GNSS and 2*4G MIMO Low Profile Antenna.

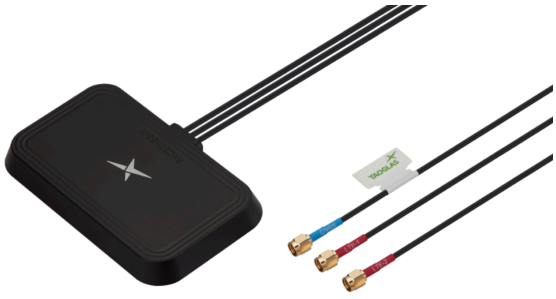
If a different antenna is used, then a separate certification will be required.



LOW (L) SIDE ANTENNA CONNECTORS VIEW



HIGH (H) SIDE ANTENNA CONNECTORS VIEW



TAOGLAS MA256.A.LBI.001 ANTENNA

System architecture

M.2 LTE Module Interface

This expansion board implements a voltage regulator to supply the M.2 LTE module and an I²C I/O expander to interface with several control lines of the M.2 LTE module.

The M.2 LTE module is connected to the Raspberry Pi Compute Module via a USB 2.0 interface.

Power and status LEDs

This expansion board has two LEDs, visible through the front panel:

A. Blue: is on when the expansion board is powered

B. Green: network registration state, directly controlled by the M.2 LTE module.

Usage

Monitoring and control of the M.2 LTE Module Expansion Board are available via I²C or through sysfs files, as described in the Strato Pi Max User Guide.

Strato Pi Max with firmware version 3.40 or later is required.

A configuration and usage guide of the Telit LN920 is available at:

https://github.com/sfera-labs/strato-pi-max

For further details, refer to the current versions of its documentation:

- Telit LN920 Series Software User Guide
- Telit LN920 AT Commands Reference Guide
- Telit LN920 Hardware Design Guide.

Advanced usage

I²C Configuration and control registers

Installing the M.2 LTE Module Expansion Board on Strato Pi Max adds the I²C configuration and control registers described below.

Refer to the Strato Pi Max User Guide for details on registers access and configuration parameters usage.

The registers' addresses are determined by adding the address offsets listed below to the start register of the slot the board is installed in: 100 for slot 1, 125 for slot 2, 150 for slot 3, and 175 for slot 4.

ADDR OFFSET	BYTE 1								BYTE 0							
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
0											GP6	GP5	RST	GPS	RF	PWR

Offset 0

Bit 0 **PWR** [R][W]: Module power control

0 = off

1 = on (default)

Bit 1 **RF** [R][W]: RF control

0 = disabled (airplane mode)

1 = enabled (default)

Bit 2 **GPS** [R][W]: GPS control

0 = disabled

1 = enabled (default)

Bit 3 **RST** [R][W]: Module reset control

0 = disabled (default)

1 = enabled

Bit 4 **GP5** [R][W]: GPIO 5 output control

0 = low (default)

1 = high

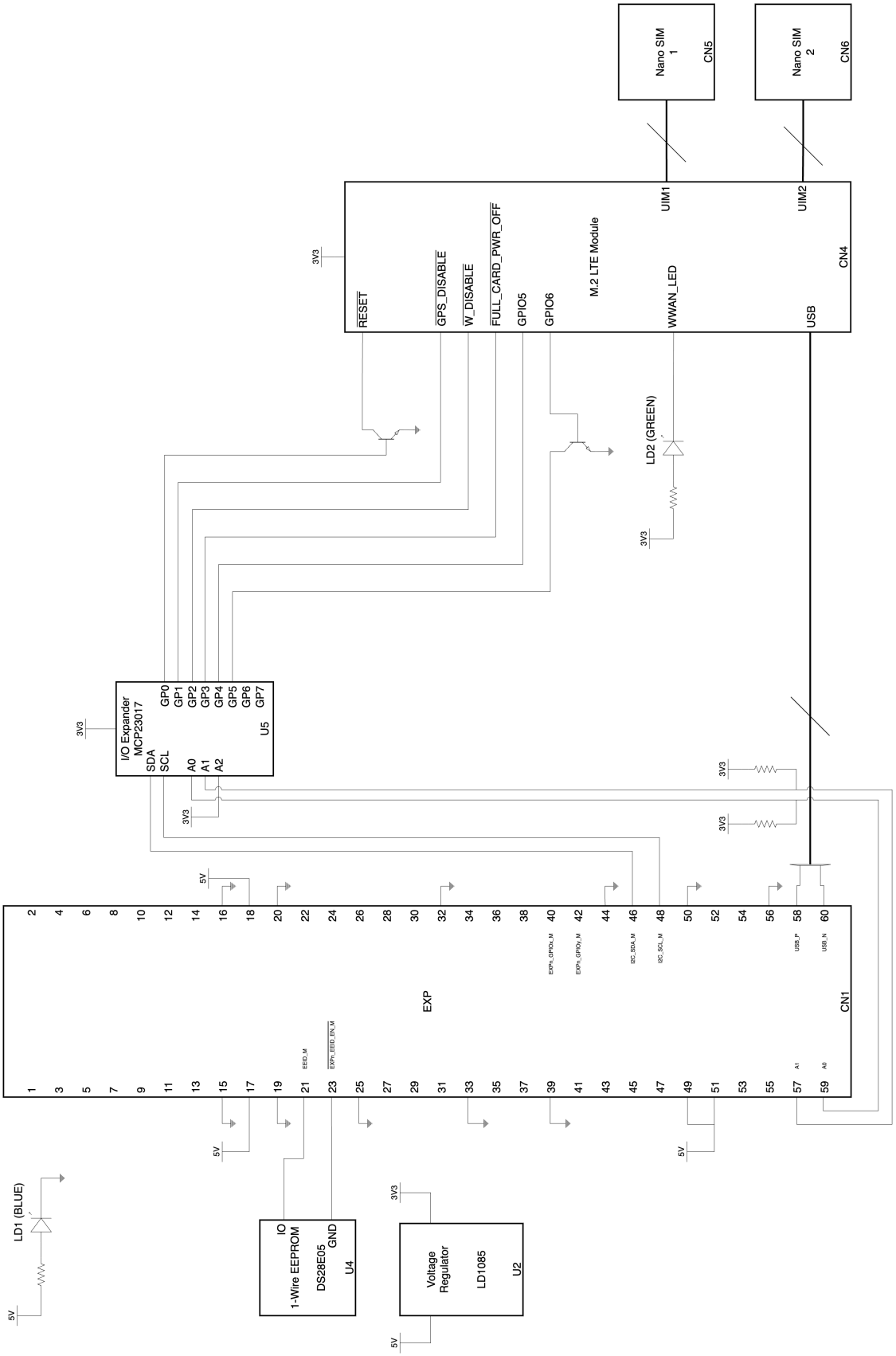
Bit 5 **GP6** [R]: GPIO 6 input state

0 = low

1 = high

Bit 15-6 reserved

Block diagram

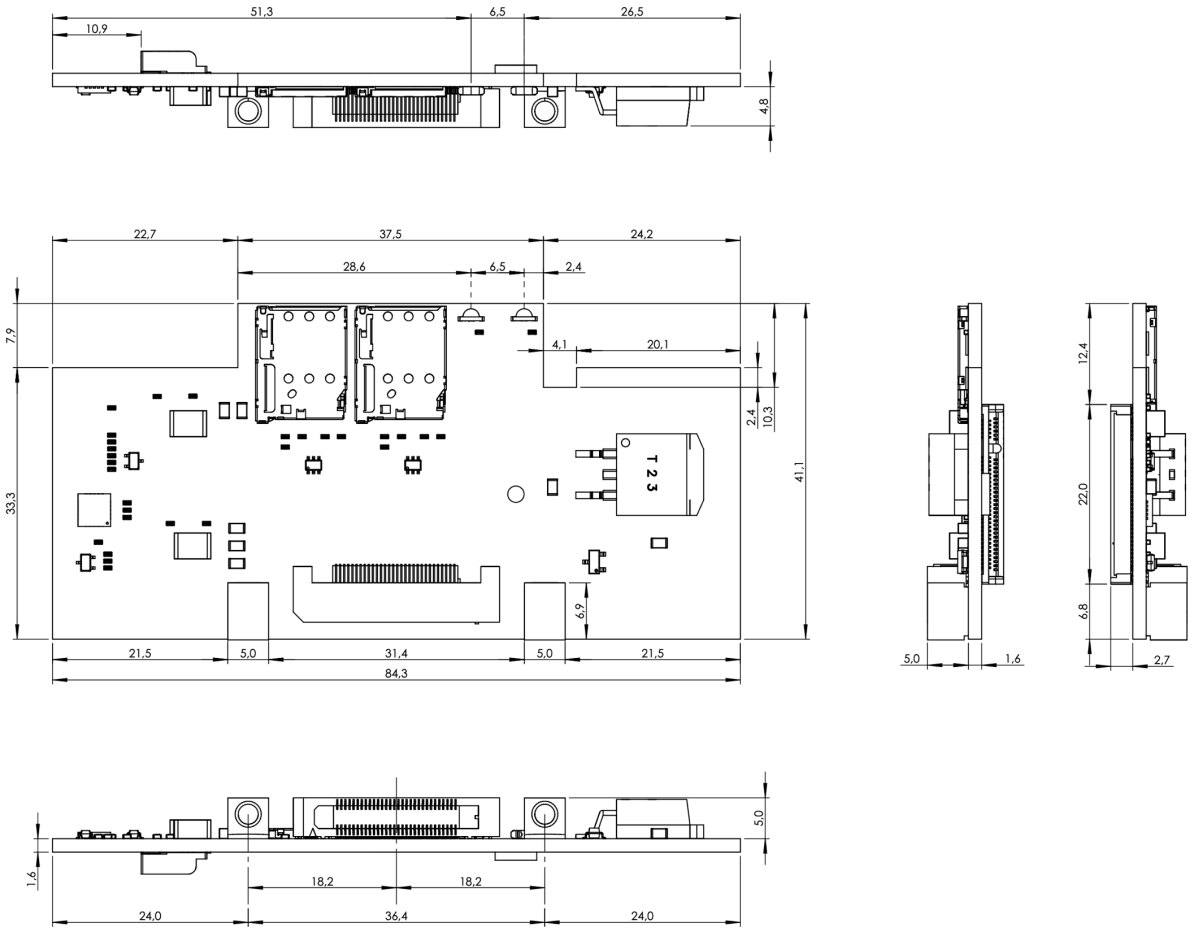


SFERA LABS SRL - X2BW10XM2Z V.1.0 BLOCK DIAGRAM R.01 - 24 SEP 2025 - COPYRIGHT 2025 SFERA LABS SRL ITALY ALL RIGHTS RESERVED

Technical specifications

TELIT LN920	
Form Factor	M.2 Key B
Modem	LN920A12-WW: LTE FDD Cat. 12 (600/150Mbps DL/UL) LN920A6-WW: LTE FDD Cat. 6 (300/50Mbps DL/UL)
GNSS	Support for GPS, GLONASS, BeiDou, Galileo, and QZSS
3G Bands	1,2,4,5,6,8,9,19
4G Bands	1, 2, 3, 4, 5, 7, 8, 12, 13, 14, 17, 18, 19, 20, 25, 26, 28, 29, 30, 38, 39, 40, 41, 42, 43, 48, 66, 71
ANTENNA CONNECTORS	
LTE-1	Main LTE antenna connector. SMA(F), 50 Ohm
LTE-2	Aux LTE antenna connector. SMA(F), 50 Ohm
GNSS	GNSS active antenna connector. SMA(F), 50 Ohm
ENVIRONMENTAL	
Operating temperature	-20…+60 °C
Storage temperature	-30…+80 °C
Altitude	Up to 2000 m
Humidity	5% to 95% RH noncondensing
Protection degree	IP20
Vibration IEC 60068-2-6 (Test Fc, Operating)	0.7 g @ 5…100 Hz
MECHANICAL	
Dimensions	width: 84.3 mm height: 41.1 mm depth: 4.8 mm
Weight	21 g (including board-to-board screws) 38 g (including screws, Telit LN920, Taoglas CAB.S02 cables)

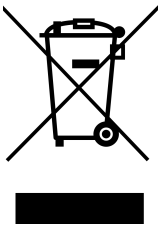
Dimensions



DIMENSIONS (mm)

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 Max contains a small non rechargeable manganese dioxide lithium coin battery.

In the Strato Pi Max, the battery is not accessible from the outside. You should first remove the case body to gain access to the Strato Pi Max circuit boards. 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.

Conformity Information

EU

Model X2BW10XM2Z (without LTE data card) complies with the following Union harmonisation legislation:

- 2014/30/EU - Electromagnetic Compatibility Directive (EMC)
- 2011/65/EU, as amended by Commission Delegated Directive (EU) 2015/863 - Restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

The following harmonised standards and other technical specifications have been applied:

- EN IEC 61000-6-2:2019 - EMC Immunity standard for industrial environments
- EN IEC 61000-6-3:2021 - EMC Emission standard for equipment in residential environments
- EN IEC 63000:2018 - Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances

Models X2BW10XM2ZA and X2BW10XM2ZB (with LTE data card) comply with the following Union harmonisation legislation:

- 2014/53/EU - Radio Equipment Directive (RED)
- 2011/65/EU, as amended by Commission Delegated Directive (EU) 2015/863 - Restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

The following harmonised standards and other technical specifications have been applied:

- EN IEC 62368-1:2020+A11:2020 - Audio/video, information and communication technology equipment - Part 1: Safety requirements
- EN IEC 62311:2020 - Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz - 300 GHz)
- ETSI EN 301 489-1 V2.2.3 - EMC standard for radio equipment and services; Part 1: Common technical requirements
- ETSI EN 301 489-52 V1.3.1 - EMC standard for radio equipment and services; Part 52: Specific conditions for Cellular Communication User Equipment (UE) radio and ancillary equipment
- ETSI EN 301 489-19 V2.2.1 - EMC standard for radio equipment and services; Part 19: Specific conditions for Receive Only Mobile Earth Stations (ROMES) and GNSS receivers
- ETSI EN 301 908-1 V15.2.1 - IMT cellular networks; Harmonised Standard for access to radio spectrum; Part 1: Introduction and common requirements

- ETSI EN 301 908-13 V13.3.1 - IMT cellular networks; Harmonised Standard for access to radio spectrum; Part 13: Evolved Universal Terrestrial Radio Access (E-UTRA) User Equipment (UE)
- ETSI EN 303 413 V1.2.1 - Satellite Earth Stations and Systems (SES); Global Navigation Satellite System (GNSS) receivers
- EN IEC 63000:2018 - Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances

RF bands tested for RED conformity: LTE 3, 7, 8, 20. Maximum radio-frequency power transmitted: 25 dBm. GNSS: receiver only.

The EU declarations of conformity are available at: https://www.sferalabs.cc

USA

Modification Statement

Sfera Labs has not approved any changes or modifications to this device by the user. Any changes or modifications could void the user's authority to operate the equipment.

Interference Statement

This device complies with Part 15 of the FCC Rules. 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.

Wireless Notice

This device complies with FCC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines. This transmitter must not be co-located or operate in conjunction with any other antenna or transmitter. The antenna should be installed and operated with a minimum distance of 20 cm between the radiator and your body.

Models X2BW10XM2ZA and X2BW10XM2ZB contain FCC ID **RI7LN920** (Telit LN920 LTE data card).

FCC Class B digital device notice

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.

Responsible party: Sfera Labs US LLC, 1209 Mountain Road Pl NE, Ste N, Albuquerque, NM 87110, USA - compliance@sferalabs.cc

The FCC Supplier's Declaration of Conformity is available at: https://www.sferalabs.cc

Information for the OEMs and Integrators

The OEM integrator should be aware not to provide information to the end-user on how to install or remove this RF module in the user's manual of the end product which integrates this module. The end user manual shall include all required regulatory information/warning as shown in this manual and the Telit LN920 manuals and Grant of Equipment.

CANADA

CAN ICES-003(B)/NMB-003(B)

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.

Models X2BW10XM2ZA and X2BW10XM2ZB contain IC **5131A-LN920** (Telit LN920 LTE data card).

Modification Statement / Déclaration de modification

Sfera Labs has not approved any changes or modifications to this device by the user. Any changes or modifications could void the user's authority to operate the equipment.

Sfera Labs n’approuve aucune modification apportée à l’appareil par l’utilisateur, quelle qu’en soit la nature. Tout changement ou modification peuvent annuler le droit d’utilisation de l’appareil par l’utilisateur.

Interference Statement / Déclaration d'interférence

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.

Radio Exposure Notice / Avis d'exposition radio

This device complies with ISED radiation exposure limits set forth for an uncontrolled environment and meets the RSS-102 of the ISED radio frequency (RF) Exposure rules, when connected to the Taoglas MA256.A.LBI.001 3-in-1 GNSS and 2*4G MIMO Low Profile Antenna.

Le présent appareil est conforme à l'exposition aux radiations ISED définies pour un environnement non contrôlé et répond aux directives d'exposition aux radiofréquences (RF) de l’ISED, lorsqu’il est connecté à l’antenne profil bas 3-en-1 GNSS et 2*4G MIMO Taoglas MA256.A.LBI.001.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

L'émetteur ne doit pas être colocalisé ni fonctionner conjointement avec une autre antenne ou un autre émetteur.

This equipment must be installed and operated in accordance with provided instructions and 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 co-located or operating in conjunction with any other antenna or transmitter. End-users and installers must be provided with antenna installation instructions.

Cet équipement doit être installé et utilisé conformément aux instructions fournies et la ou les antennes utilisées pour cet émetteur doivent être installées pour fournir une distance de séparation d'au moins 20 cm de toutes les personnes et ne doivent pas être co-localisées ou fonctionner en conjonction avec toute autre antenne ou émetteur.

Les utilisateurs finaux et les installateurs doivent recevoir les instructions d'installation de l'antenne.

Compliance information for Telit LN920

The X2BW10XM2ZA board hosts a standard Telit LN920A12-WW LTE Cat 12 Data Card.
The X2BW10XM2ZB board hosts a standard Telit LN920A6-WW LTE Cat 6 Data Card.
The end-user is not authorised to install or remove the LN920 module.

EU

The Telit LN920A12-WW LTE Cat 12 Data Card and LN920A6-WW LTE Cat 6 Data Card are in conformity with the essential requirements and other relevant requirements of the Radio Equipment Directive 2014/53/EU.

USA

Telit LN920A12-WW LTE Cat 12 Data Card FCC IDENTIFIER: **RI7LN920**

Telit LN920A6-WW LTE Cat 6 Data Card FCC IDENTIFIER: **RI7LN920**

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 co-located or operating in conjunction with any other antenna or transmitter, except in accordance with FCC multi-transmitter product guidelines.

CANADA

Telit LN920A12-WW LTE Cat 12 Data Card IC CERTIFICATION No.: **5131A-LN920**

Telit LN920A6-WW LTE Cat 6 Data Card IC CERTIFICATION No.: **5131A-LN920**