Westermo

CyBox GW 2-P

SAFETY INFORMATION

REVISION

Revision 2.0 Date 06.05.2024

PACKAGE CONTENTS

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LEGAL INFORMATION

Detailed technical characteristics and legal information as well as effective license provisions can be found in the Download Center (<u>https://downloadcenter.eltec.de/login</u>) on our website www.eltec.com.

EU Declaration of Conformity



Westermo Eltec GmbH herewith declares that the device is compliant to the basic requirements of the directive 2014/53/EU. The full text of the EU declaration of conformity is available in the Download Center.

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SAFETY INFORMATION

- Please read the configuration and installation manuals carefully before installing and using any of our products, especially for output power and frequency bands of the radio modules. You can download the manuals after registration in the Download Center (https://downloadcenter.eltec.de/login) on our website www.eltec.com.
- Allow only appropriately trained personnel to handle the devices and observe the Electrostatic Discharge (ESD) protective measurements. Also, the internal SIM cards are only allowed to be installed, taken into operation, and replaced by qualified and trained staff. Furthermore, ESD protection measures must be taken.
- Usage restriction: The designated product may only be used in an industrial environment (Class A product) in accordance with the specifications stated in the manuals.
- The device can become very hot during operation (> 80°C).
 - Make sure the device is protected from accidental contact.
 - The device must be installed inaccessible to children.
 - For optimal heat dissipation the connectors should face downwards.
- Do not install the device close to any sources of heat, such as radiators or heating ducts.
- Keep the device away from any liquids and avoid exposure to dripping or splashing. The protection class of the housing is IP 40.
- The device can be operated with voltages higher than 60 VDC.
 - Incorrect handling can cause a fatal electrical shock.
 - Before connecting the power supply, connect the device to protective earth.
- To prevent the risk of electric shock, turn off the external power supply and remove the power supply cable from the electrical outlet before handling or disassembling the system.
- When connecting or disconnecting devices to or from the system ensure that the power cables of the devices are unplugged before the signal cables are connected. If possible, disconnect all power cables from the existing system before connecting the device.
- Before connecting or removing signal cables ensure that all power cables are unplugged.
- When using 5G, LTE, WLAN or GNSS interfaces connect an appropriate antenna to the QLS built-in socket.
- At least 20 cm separation distance between the antenna and the user's body must be always maintained.

RADIO FREQUENCIES AND TRANSMITTING POWER

2.4 GHz 2.4 - 2.483 GHz 20 dBm 5 GHz 5.15 - 5.35 GHz 23 dBm 5.8 GHz 5.725 GHz 30 dBm 5.8 GHz 5.725 - 5.875 GHz 13 dBm SG NR LTE DOWNLINK (DL) UPLINK (UL) MAX. POWER (E.I.R.P.) n1 (SA) B1 2110 - 2170 MHz 1920 - 1980 MHz 23 dBm n3 (SA) B3 1805 - 1880 MHz 1710 - 1785 MHz 23 dBm - B7 2620 - 2690 MHz 2500 - 2570 MHz 23 dBm - B8 925 - 960 MHz 880 - 915 MHz 23 dBm - B20 791 - 821 MHz 832 - 862 MHz 23 dBm - B38 2570 - 2620 MHz 2570 - 2620 MHz 23 dBm - B38 2570 - 2620 MHz 23 dBm 23 dBm 3 dBm - B38 2570 - 2620 MHz 23 dBm 23 dBm 3 dBm - B38 2570 - 2620 MHz 23 dBm 3 dBm	WLAN		RANGE		MAX. POWER (E.I.R.P.)
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UM IS (WCDMA) DOWNLINK (DL) UPLINK (UL) MAX. POWER (E.I.R.P.)	UMTS (WCDN	ΛA)	DOWNLINK (DL)	UPLINK (UL)	MAX. POWER (E.I.R.P.)
B1 2110 - 2170 MHz 1920 - 1980 MHz 24 dBm	B1		2110 - 2170 MHz	1920 - 1980 MHz	24 dBm
B3 1805 - 1880 MHz 1710 - 1785 MHz 24 dBm	B3		1805 - 1880 MHz	1710 - 1785 MHz	24 dBm
B8 925 - 960 MHz 880 - 915 MHz 24 dBm	B8		925 - 960 MHz	880 - 915 MHz	24 dBm



The following restrictions are effective in the EU member states AT, BE, BG, CY, CZ, DE, DK, EE, EL, ES, FI, FR, HR, HU, IE, IT, LT, LU, LV, MT, NL, PL, PT, RO, SE, SI, SK

The WLAN frequency band 5.15 GHz to 5.35 GHz is intended only for indoor use. The 5G NR frequency band n28 is restricted to 703 - 736 MHz (UL) and 758 - 791 MHz (DL). The 5G NR frequency band n78 is restricted to 3400 - 3800 MHz (UL, DL).

Recommended antenna type and gain

WLAN	Dipole antenna - 3.5 dBi (2.4 GHz) & 3.0 dBi (5 GHz)
5G NR	Dipole antenna - 8.0 dBi (SA bands) & 11.0 dBi (NSA bands)
LTE UMTS	Dipole antenna - 11.0 dBi 11.5 dBi (5G module) 3.0 dBi
	(LTE CAT18 module)

For further details about the setting of transmit powers please refer to the configuration manual.