

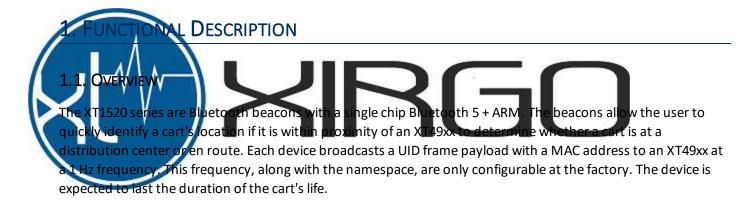
XT1520 Product Manual

Firmware Version: NV11.1125AA1

Revised July 06, 2020

XT1520 Product Manual

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1.2. MECHANICAL



Mechanical	
Dimensions	4.0 x 2.2 x 1.3 in (10.16 x 5.59 x 3.30 cm)
Weight	3.8 oz
Case Material	PC+PBT
IP Rating	IP67
Vibration	Mil. Std. 202G, SAE J1455







This frame type is very important in the XT15 as it comprises the primary functionality of the device. The UID is a unique 16-byte ID with a 10-byte namespace and 6-byte instance ID. The namespace portion is used to group sets of XT15s and the instance ID is used to identify individual devices.

		UID Frame		
Frame Type	Power at 1 M	Namespace ID	Instance ID	RFU
1 byte	1 byte	10 bytes	6 bytes	2 bytes

4.2. TLM FRAME

The TLM frame type is used to display telemetry data about the operations of the clients in use. It can be used to monitor beacons in the field. The frame is paired with an identifier frame because TLM has no beacon ID. This frame broadcasts at a 1/10 Hz frequency.

			TLM Frame		
Frame Type	Version	Battery	Beacon	ADV PDU Count	Time Since Boot (100ms
		Voltage (mV)	Temperature	Since Boot	incraments
1 byte	1 byte	2 bytes	2 bytes	4 bytes	4 bytes

3 Byte	4 By	tev	-			Protocol	Data Unit (PDU)			CRC
				_		an pres	39 Bytes			3 Eytes
			Neader 2 Byles				Advertising Payload Up to 37 Bytes			
	Ned				ADV Address	C		DV Data		
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4.6m 2.8m	1.84	184 184	1 2.8m							
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AD-Length AD	Fliqs	AD Length	0 251UD	AD-Length	- AD	ES UUIO	1	ES Frank		
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					0+1E	2 Bytes	-			
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Frame Type Po 1 Byta 3r00	wer @ das 1.8yte		Name Spec	1	16 Byle UUD		trataece (D) E Bytes		RFU 2 Bytes	COD Frametys
1 Eyla Br00 Foame Type Po	1 Byte	URL Prefix		1	16 Byle UUID	Encoder	E Bytes s URL			CIED Frametys
1 Eyla Br00 Foame Type Po 1 Syle	1.8199	URL Prefix T.Dyte	TD Byte	8	16 Byle UUID	Encoder	E Bytes			⊐' ⊐'
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Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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.

Changes or modifications made to this equipment not expressly approved by Xirgo Technologies, LLC may void the FCC authorization to operate this equipment.

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.

Radio frequency radiation exposure Information:

This equipment, XT1520, complies with FCC and ISED radiation exposure limits set forth for an uncontrolled environment. This equipment must be installed and operated with minimum distance of 20cm between the XT1520 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.

Licence exempt

This device complies with Industry Canada licence-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'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

6.3. CE

The DOC (Declaration of Conformity) is either included in the packaging or can be found at the following link: www.xirgotech.com

