2026

CDX Tablet Transceiver

User Manual

Version: 1.1
Publish date: 24/03/2026

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Disclaimer

Safety

This product is designed to assist in improving safety on a go-karting track. While it may help reduce certain risks when used correctly, it does not eliminate hazards associated with go-karting activities and **cannot replace proper track safe operating procedures, trained personnel, or compliance with applicable safety regulations**.

While every effort has been made to ensure the accuracy of the information contained in this manual, the manufacturer cannot be held responsible for errors, omissions, or inaccuracies in this publication.

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FCC statement

Product name: CDX Tablet Transceiver

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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. Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

DOCUMENT REVISIONS

Version	Details	Date	Author
0.1	Init user manual.	11-12-2025	TF
0.2	Update of document.	16-12-2025	TF/WH
0.3	Added document.	18-12-2025	KKS
0.4	Update of document.	12-01-2026	HV/CM
1.0	First release.	15-01-2026	JFL/KKS
1.1	Processed feedback Applus.	24-03-2026	KKS

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1 Introduction

The CDX Tablet Transceiver is a device used to transmit speed commands to the CDX EV Controller. See Chapter 4 (Technical data) for frequency and antenna details. The device is designed for installation at a fixed location with an overview of the go-karting track. The CDX Tablet Transceiver provides a fixed control interface within the CDX control system. The product is intended as a supplementary control device and does not replace established track procedures and supervision.

1.1 Package contents

The following items are supplied with the CDX Tablet Transceiver.

- CDX Tablet Transceiver

Figure 2:CDX Tablet Transceiver

- Charger cable

Figure 1:USB charger cable

- Charger adapter

Figure 3: Charger adapter

- Antenna

Figure 4: SMA antenna

- Data cable

Figure 5: USB-C data cable

- Tablet

Figure 6: Tablet

1.2 Compatible expansion components

- CDX EV Controller
  - The CDX Tablet Transceiver controls the CDX EV Controller to limit the speed on a go-kart.
- CDX Phone Transceiver
  - The CDX Tablet Transceiver can control the CDX EV Controllers together with CDX Phone Transceivers. Speed settings are automatically synchronized between the CDX Tablet Transceiver and the CDX Phone Transceiver such that both are able to control and show the speeds of CDX EV Controllers.
- Tablet stand
  - The CDX Tablet Transceiver can be mounted on a tablet stand to allow you to perform other tasks at a moment's notice. An example is signaling an accident using a flag, which requires both hands.

1.3 Overview of product features

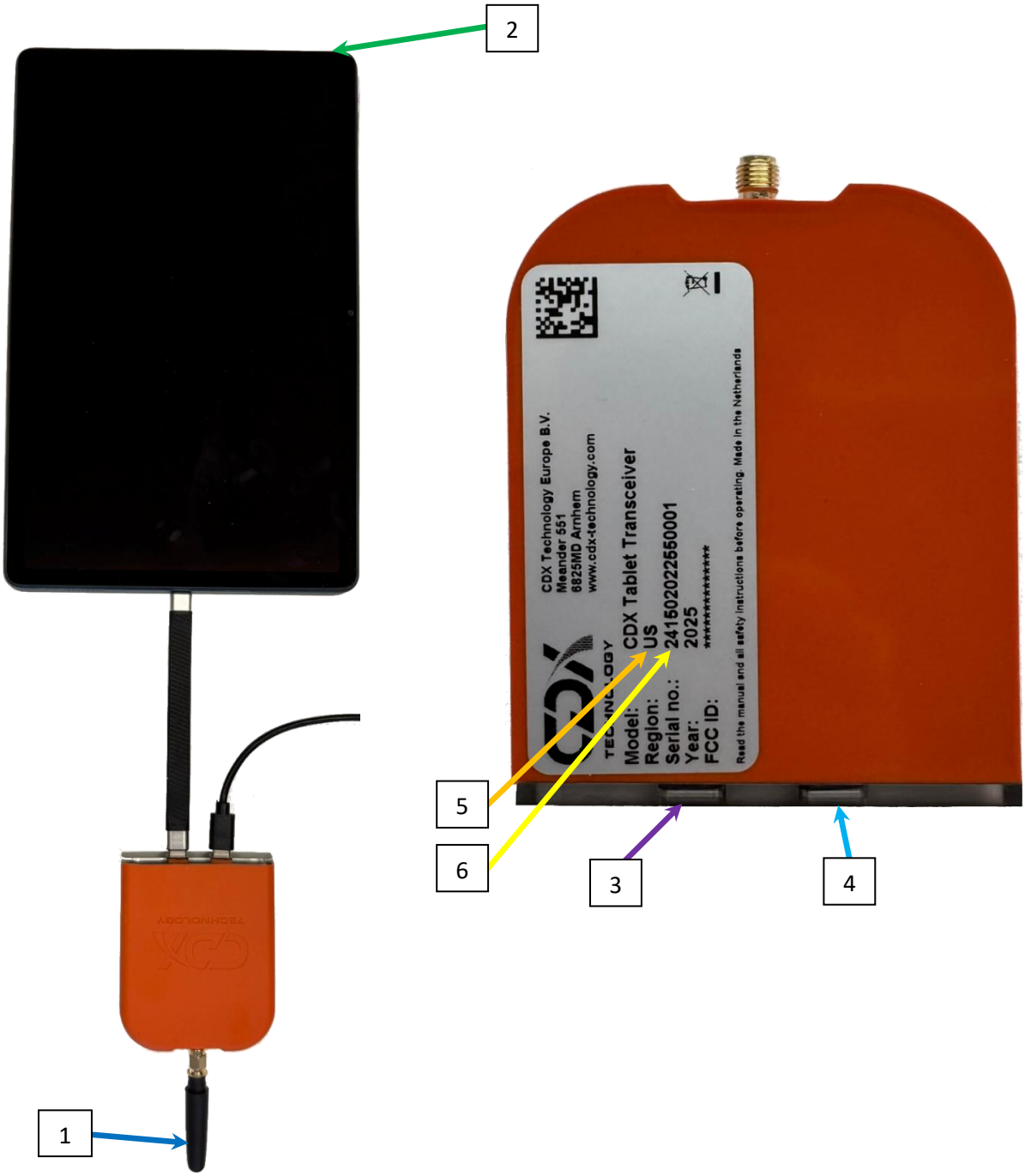

Figure 7: Front and back side of CDX Tablet Transceiver

NUMBER	DESCRIPTION
1.	Antenna location
2.	On/Off button
3.	USB-C tablet connector
4.	USB-C charging connector
5.	Region
6.	Serial Number

2 Operating instructions

The CDX Tablet Transceiver is used to send speed commands to the CDX EV Controller. Track marshals positioned alongside the go-karting track monitor on-track activity and overall safety. If necessary, they can remotely adjust the speed of individual go-karts or bring them to a complete stop by transmitting speed commands via the CDX Tablet Transceiver.

2.1 CDX Tablet Transceiver User Interface

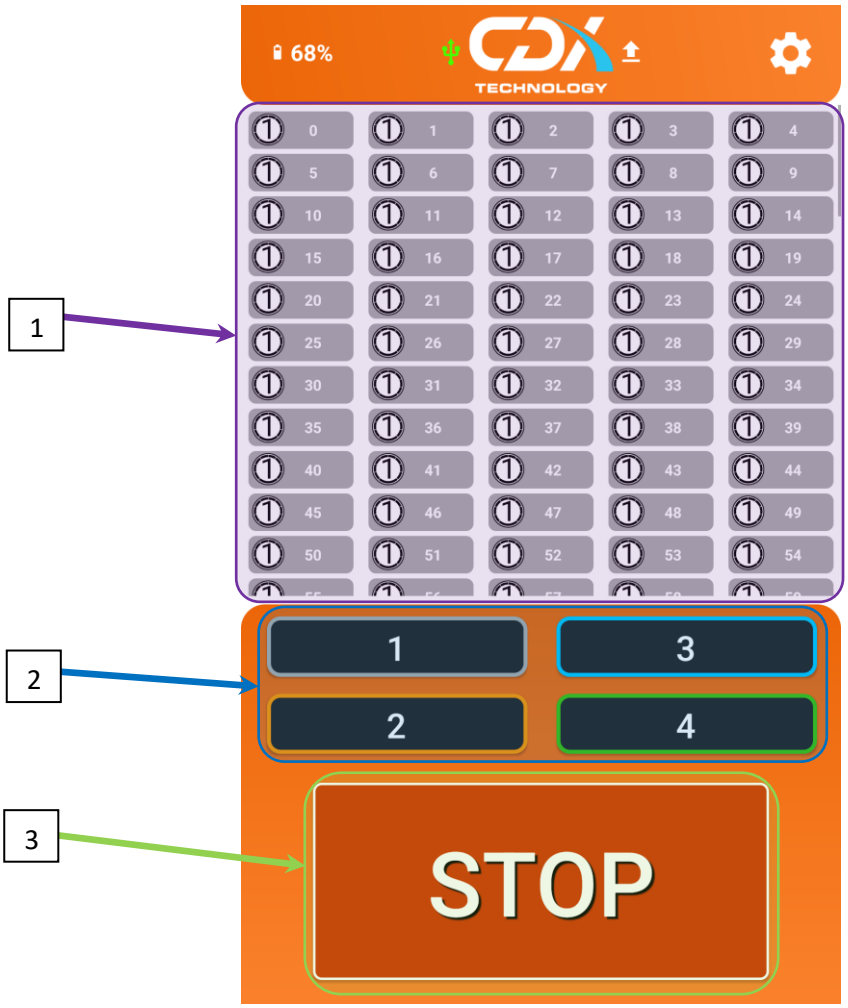

Figure 8: CDX Tablet Transceiver Interface

NUMBER	DESCRIPTION
1.	Individual go-kart speed control
2.	Group go-kart speed control
3.	STOP button

2.2 Group speed control

Group speed control is used to activate a speed setting for all go-karts, within the range of the CDX Tablet Transceiver. The group speed control buttons are shown in Figure 8, and highlighted with number 2.

2.3 Individual speed control

Individual speed control is used to apply a speed setting for a specific go-kart. The individual speed control buttons are shown in Figure 8, and highlighted with the number 1. The speed of the individual go-kart will also be displayed in this area.

For example, if all go-karts are set to speed 4, but kart 22 is individually set to speed 3, the remaining go-karts will continue to run at speed 4.

2.4 Synchronization between Remote controls

All CDX Control interfaces (Tablet and Handheld) support synchronization functionality. When synchronization is active, the current speed setting of the assigned group is displayed on each control interface. The displayed speed setting can be found in the upper-left corner of the screen, next to the CDX Technology logo, referred to as S1 up to S4 (or S8 if the 8 speed settings are used).

2.5 Charging

Charging starts when the charger is plugged into the USB-C charging connector on the bottom side of the CDX Tablet Transceiver, which is shown with the number 4 in Figure 7. Please take notice that the CDX Tablet Transceiver must be turned on in order to negotiate charging. Therefore, never let the charge go under 20 %.

Charging should only take place using the supplied charger and the supplied USB-C cable.

3 System Configuration

The CDX Tablet Transceiver has various features that can be configured. This includes 4 or 8 speed mode, Track ID and Track PIN.

3.1 Speed restriction

The main function of the CDX Tablet Transceiver is to limit the speed of go-karts using the CDX EV Controller. This is done using the group speed control buttons are shown in Figure 8, and highlighted with the number 1.

3.2 4 speed or 8 speed mode

When the motor speed controller on the go-kart uses 4 separate speed presets and a stop command, the CDX Tablet Transceiver should be used in 4 speed mode. This is the default configuration. Optionally, for normal use speed 1-4 and STOP can be send to the CDX EV Controller. An optional 5-8 speed is available for go-karts that have a different motor controller. See the corresponding CDX Technology Europe B.V. (2026). *CDX_Remote_App_User_Manual.* for further information.

3.3 Track ID and Track PIN

The Track ID and Track PIN feature allows the segmentation of a group of CDX EV controllers. By default the Track-ID is set to ‘0000’ and Track-PIN is set to ‘0000’. In this mode the CDX EV controller accepts speeds commands from CDX Tablet Transceivers remotes regardless of track id and track pin settings of the CDX Tablet Transceiver. This is done to enhance the safety where someone cannot accidentally block their communication ability.

A Track ID and Track PIN can be used when individual control of two or more groups of go-karts is required. The Track ID and Track PIN are configured in the settings of the CDX Tablet Transceiver and must correspond to the settings in the CDX EV Controller.

This function can also be used to prevent misuse of the system by changing these 2 parameters. Preventing dangerous situations caused by people with malicious intent.

3.4 Region

Every CDX Tablet Transceiver is preconfigured to work with the radio frequencies that are permitted in the specific region where it is bought. The region code is shown on the label of the CDX Tablet Transceiver, shown in Figure 7, highlighted with the number 5.

It should be noted that the CDX Tablet Transceiver only works with other CDX devices configured to the same region (frequency). Additionally, Transceivers are intended for use only in the region for which they are configured.

4 Technical data

This chapter presents the technical data in tables by category.

Electrical characteristic	Min	Typ.	Max	Unit
Charging input voltage	5.2			V (DC)
Charging input current		2.5		A

Environmental characteristics	Min	Typ.	Max	Unit
Operational temperature[1]	0		45	°C
Storage temperature	-20		60	°C

Radio characteristics		Unit
Transmission radio frequency	869 (Europe), 908 (North America)	MHz
Transmission power	16 (Europe), 251 (North America)	mW
Radio modulation	Direct-sequence spread spectrum (DSSS)	
Radio antenna	External SMA antenna	
Radio antenna gain	2	dBi

Physical characteristics		Unit
Dimensions (Width × Length × Height)	86 × 70 × 9	mm
Housing material	Polyurethane	

[1] Upon request, wider temperature ranges are available.

5 References

1. CDX Technology Europe B.V. (2026). *CDX_Remote_App_User_Manual.*