



**Technical documentation (EN)**

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## 1. Introduction

The ADA-Pad is a compact, robust input device designed for professional use in point-of-sale systems, information and self-service terminals, and demanding service environments.

It meets the requirements of the European Accessibility Act (EAA) and the Americans with Disabilities Act (ADA) and enables barrier-free operation of software applications. The clear key structure, central control pad and customisable lighting ensure intuitive operation – even for users with limited motor skills or vision. The ADA-Pad thus supports compliance with legal requirements and promotes the inclusive use of digital systems.

The device connects to POS systems, terminals or other compatible devices via a USB-C port and is automatically recognised by the system as the default keyboard. No additional driver installation is required, which simplifies commissioning and enables use in a wide variety of system environments.

The integrated RGB lighting can be configured in zones. Factory settings can be adjusted via the software or API. This allows the device to be flexibly adapted to different scenarios – for example, through colour-coded function areas or visual feedback.

Thanks to its ease of use, flexible customisation and high safety standards, the ADA-Pad is ideal for professional applications that require reliable input and long-lasting functionality.

## 2. Safety and warning notices

### 2.1. Intended use

The ADA-Pad is intended for commercial use only.

It was developed specifically for accessible operating terminals, such as self-checkouts in retail stores, self-service scales, ticket machines or information terminals, and is used to enter user input via haptic buttons and acoustic feedback.

The installation and use of the ADA-Pad must comply with the environmental conditions specified in Section 2.2.

A prerequisite for proper use is that the ADA-Pad is installed and operated by trained or instructed personnel who are familiar with the usual safety requirements and potential hazards.

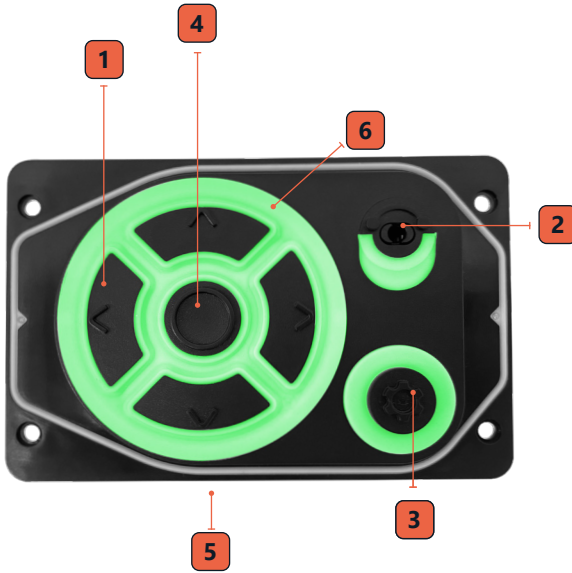
## 2.2. Technical specifications

Dimension (WxHxD)	104 mm × 68 mm × 26 mm
Weight	66 g
Supply/USB	5V ±0.25V (USB 2.0)   For UL compliant usage use power adaptor listed to UL 62368-1 or UL 60950-1
Power consumption	308 mA (with lighting and maximum brightness) 72 mA (without lighting)
Interface	USB type C
Audio output	Maximum 6.1 mW per channel at a load of 32 ohms
Headphone jack	3.5 mm — Stereo headset. Supports TRRS 4-pin headphone jack. Complies with CTIA standard.
Keys	4-way (↑←→) + Enter + adjustment knob Lifting force: 60gf +/- 20gf /
Beleuchtung	RGB/zoned — brightness/flashing pattern adjustable via software/API
Weight	66 g
Operating temperature	-20 °C to +40°C
Warehouse/transport	-20 °C to +70°C
IP degree of protection	IP65
Key lifespan	1.000.000 presses per key
Materials	Housing/buttons: TPC-ET(3078) + ABS
Operating systems	Windows 10/11, can be used with other operating systems – to be checked on a case-by-case basis
Interface (USB) data:	VID: 0F39, PID: 0065

## 2.3. Disclaimer

The manufacturer is not liable for damage caused by improper use, unauthorised repairs, use contrary to the intended purpose or failure to observe the safety instructions. Any modification or alteration of the ADA-Pad is prohibited, as this will invalidate compliance with statutory safety and environmental standards and the CE marking.

### 3. Product description



<b>1</b> Tactile arrow keys for navigation	<b>4</b> Tactile ENTER button for confirmation/selection
<b>2</b> Audio jack for headphones and microphone	<b>5</b> Dip switch on the rear for flexible installation; vertical or horizontal
<b>3</b> Tactile function key for opening menus	<b>6</b> RGB backlighting controllable in 3 zones

## 4. Connection options

This document describes the technical connection options and configuration options for the device. For maximum flexibility, there are three different variants available for putting the device into operation and adapting it to your individual requirements:

### 4.1. Connection option 1: Direct connection via USB-C

The easiest and fastest way to start using the device is to connect it directly using a USB-C cable. Once connected, the device is automatically recognised by the system as the default keyboard and is ready to use immediately – no additional software or configuration steps are required.

#### **Preset functions**

In this mode, all basic functions are already preconfigured:

- **Key assignment according to standard hex codes**  
The individual keys send the same hex codes as a conventional keyboard. For example, the arrow keys correspond to the usual keyboard commands and can be used directly in applications.
- **Predefined LED settings**  
The device lights up in a preset colour and brightness, providing visual feedback on the operating status. These settings are permanently stored and provide immediate orientation. The preset value is 6 out of 9 in green.
- **Plug-and-play functionality**  
No drivers or installations are required. The device can be used immediately after plugging it in – ideal for quick deployment.

#### **Advantages of this variant**

- Immediate operational readiness without setup
- Compatible with all current Windows operating systems
- Standardised key functions for easy integration
- Visual operating display through preset lighting

This connection option is particularly suitable for users who want to use the device quickly and easily. It is possible to switch to the configuration software or API interface at any time.

Function	Standard		Alternative		Custom
Right	0x4F	Right arrow	0x4F	Right arrow	Default is without value. The user can set the key codes on the Key code page.
Left	0x50	Left arrow	0x50	Left arrow	
Down	0x51	Down arrow	<0x01> <0x04>	Multimedia volume down	
Up	0x52	Up arrow	<0x01> <0x02>	Multimedia volume up	
Selection	0x28	Enter	0x28	Enter	
Jack IN	0x6A	F15	0x6A	F15	
Jack OUT	0x6B	F16	0x6B	F16	
Settings	0x6C	F17	0x6C	F17	
<b>Orientation switch</b>					
Landscape	0x6D	F18	0x6D	F18	Default is without value. The user can set the key codes on the Key code page.
Portrait	0x6E	F19	0x6E	F19	

## 4.2. Connection option 2: Configuration via software tool

The second option for commissioning the device is via specially developed configuration software. This variant offers extensive customisation options and is particularly suitable for users who want to configure the device individually or manage several devices simultaneously.

### Functions of the configuration software

After connecting the device to the computer, a variety of settings can be configured using the software tool:

- **Set individual key assignments**  
Each key can be assigned a specific command or hex code – depending on the requirements of your application.
- **Adjust LED settings**  
Colour, brightness, flashing behaviour and continuous lighting can be configured for each zone or for the entire device.
- **Create profiles for multiple devices**  
The software allows multiple device configurations to be set up and managed simultaneously – ideal for workstations with multiple input devices or for serial configurations.
- **Performing firmware updates**  
New features or improvements can be transferred directly to the device via the software to keep it up to date.

### Test mode for functional testing

The integrated test mode allows the individual button and lighting functions to be checked directly in the software. Each button can be pressed individually and the response can be checked visually or functionally. This is particularly helpful during initial installation, maintenance work or troubleshooting.

### Advantages of this option

- User-friendly interface for easy setup
- High flexibility in customising functions
- Efficient management of multiple devices
- Secure and convenient updates
- Option to test functions using test mode

### 4.3. Connection option 3: Integration via API interface

The third option for connecting the device offers a high degree of flexibility: the device can be controlled and configured directly from software via an API interface. This option is particularly suitable if the device is to be deeply integrated into existing software structures.

The device can be controlled directly from the application and integrated into existing system processes – for example, for real-time control via cash register software or interactive user interfaces.

#### Functionality

The API interface allows specific commands to be sent to the device – for example, to control individual button functions, adjust the lighting or change configurations during operation. Communication takes place on the software side, which means that no separate configuration steps are necessary.

#### Possible application scenarios

- **Direct button control**  
Individual buttons on the device can be triggered specifically via the software – e.g. to confirm a process, for navigation or to trigger defined actions.
- **Dynamic LED control**  
The colour, brightness and flashing behaviour of the integrated LEDs can be adjusted depending on the situation – for example, to display status information, warnings or user guidance.
- **Individual configuration during operation**  
The software can transmit new settings to the device at any time – e.g. changed key assignments, lighting patterns or operating modes. This allows workflows to be automated and adapted to different requirements.
- **Firmware-Management**  
Firmware updates can also be installed via the API interface to keep the device up to date or to provide new functions.

This connection variant is primarily intended for developers and system integrators. Technical documentation on the API interface with all available functions, data formats and examples is available separately.

## 5. Maintenance and care

### 5.1. Cleaning and care

The device must be disconnected from the host system before cleaning. Use a soft, lint-free cloth. If necessary, the cloth may be slightly moistened with water. Do not use cleaning agents, solvents or aggressive chemicals, as these may damage the housing and surfaces.

### 5.2. Maintenance and repair

The device must not be opened or dismantled. Repairs may only be carried out by the manufacturer or authorised specialist personnel. The device does not contain any components that can be serviced by the user. Improper tampering can lead to electrical hazards, malfunctions or damage.

## 6. Disposal

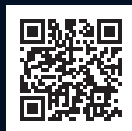
The ADA-Pad must be disposed of in an environmentally friendly manner at the end of its service life in accordance with the WEEE Directive (2012/19/EU). Disposal in household waste is not permitted. Only dispose of the device at authorised collection points or return points of the manufacturer.

WEEE Reg. No.: DE17266417

These measures ensure that valuable resources are reused and harmful environmental impacts are avoided.



ANKER Solutions GmbH  
Striegauer Straße 21  
33719 Bielefeld  
Tel: +49 (0) 521 - 301- 0  
E-Mail: [info@anker.net](mailto:info@anker.net)



[www.anker.net](http://www.anker.net)