

AirID 2 Mini - CE, FCC User Manual

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FCC Reference

Contains Transmitter Module FCC ID: QOQ13

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Thank you for purchasing the AirID Smart Card Reader in the mini format. Before using the AirID, please take the time to read this manual, to learn about all the features and capabilities of your new AirID.

Package Content

- AirID Mini smart card reader
- USB cable
- ReadMe First

Intended Use

AirID is a wireless smart card reader that you can carry with you at all times. The AirID reader communicates via a secure Bluetooth Low Energy (BLE) connection with your device and makes the inserted smart card available for cryptographic operations such as data encryption or authentication.

Support / Questions

Information about AirID can be found online at <https://certgate.com/en/> and on our service and support page [AirID Support](#).

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1. About This Guide

This guide provides step-by-step instructions to help customers using the AirID on Windows and iOS and contains also all the necessary information for application developers needed to use certgate's AirID Bluetooth reader with their apps.

1.1. Who Should Read This Guide

The guide is intended for users of the AirID on Windows and for app developers who want to integrate AirID in their smart card aware environment or software.

1.2. Typographical Conventions

The following kinds of text formatting and icons identify special information in the document:



Warning

Warnings mark situations where loss of data or misconfiguration of the device is possible if the instructions are not obeyed



Note

Notes provide additional information on a topic and emphasize important facts and considerations



Tip

Tips provide best practices and recommendations

Code

Code and or command line examples

Menu, Buttons

Items you must select, such as menu options, command buttons, or items in a list. Example: Go to the **System** tab.

Parameters

Parameter and attribute names

2. Device Layout

2.1. Overview

Device Description

AirID is a wireless smart card reader that you can carry with you at all times. The AirID reader communicates via a secure Bluetooth Low Energy (BLE) connection with your device and makes the inserted smart card available for cryptographic operations such as data encryption or authentication.

AirID is powered by a rechargeable Li-Po battery and can't be changed by the user. The battery is charged by plugging the AirID into either a computer or external USB wall adapter using the USB cable provided. The LCD display shows all setting information and status of the reader. The user-friendly 2-button system helps you to navigate through the settings of the device.

Bluetooth Connected Mode Usage

With the AirID it is possible to protect Apps with smart card based-security via Bluetooth Low Energy (BLE).

Note: Because of the sandbox architecture of iOS and Android, the AirID driver needs to be integrated into an app to use AirID with this specific app.

Examples of apps with AirID integration:

- cgPhone for iOS
- SecurePIM for iOS
- your company specific apps*

*contact your company administrator!

If you would like to integrate AirID into your app, contact our support at support@certgate.com and get our [AirID SDK for iOS](#).

USB Connected Mode Usage

AirID can be used as a standard USB CCID reader on almost all PCs with an common operating system (Windows, OS X and Linux).

2.2. Package Contents

Check the product box for the following items:

- AirID Mini smart card reader
- USB cable
- ReadMe First

2.3. Hardware Features

Device Features

? Unknown Attachment

1 Keychain

2 Low Power LCD Display

3 2-Button logic

4 LED indicator

5 USB interface

Control Element

AirID Mini is designed for easy menu navigation using a 2-button system.

Button	Function
left button	<ul style="list-style-type: none"> • Long keypress: switching the device On / Off • Short keypress: scrolling down
right button	<ul style="list-style-type: none"> • Short keypress: confirm / select

Status Indicator

Following status indicators exists on AirID

Status	Status Indicator	Meaning
Smart card status		card not inserted, card not supported or damaged
		card inserted and card supported
		card access blocked (coverage)
Connection status	 	Bluetooth and advertising activated
		Bluetooth activated and connected to host
Battery status		remaining battery capacity

LED Indicator

Color	Meaning
red	on while battery charging; off when battery charging is done
blue	on while bluetooth communication activities
green	on while smart card activities

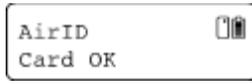
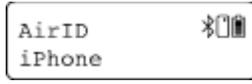
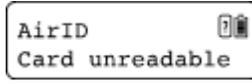
3. Menu Layout

In the AirID device menu you can make various settings. You can access the different setting menus by navigating with the buttons.

3.1. AirID

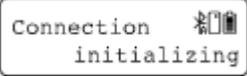
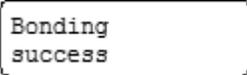
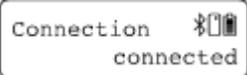
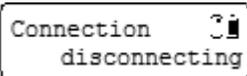
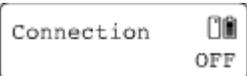
The **AirID** menu is displayed in the main window and shows the smart card status.

Setting	Display	Meaning
Initialize		AirID initialized the smart card. This message appears only very shortly

Card OK	 	<p>The smart card is inserted and it is recognized.</p> <p>When AirID is paired with a device, the device name is displayed here.</p>
Card unreadable		<p>The inserted smart card is not readable or not inserted. Please ensure that there is a properly inserted card and that the smart card is supported</p>

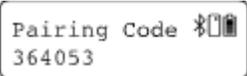
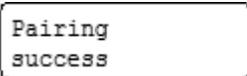
3.2. Connection

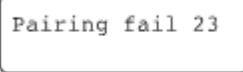
The **Connection** menu is the second setting when you scroll down. This is used to activate the Bluetooth connection or to terminate the connection.

Setting	Display	Meaning	
Initializing		<p>AirID initializes Bluetooth and activates the advertising mode. This message appears only very shortly.</p>	<p> In the advertising mode, the AirID sends a Bluetooth signal making it detectable by devices. Requests must be checked and confirmed.</p>
ON/ waiting		<p>AirID has activated Bluetooth and advertising mode and is waiting for the connection to be established. After pressing the right button, Bluetooth and the advertising mode will be disabled.</p>	
Bonding		<p>AirID has successfully connected to a device. This message appears only very shortly.</p>	
Connected		<p>AirID is connected to a device.</p>	
Disconnecting		<p>When the right button is pressed, the connection is terminated.</p>	
OFF		<p>Bluetooth and the advertising mode are disabled. Pressing the right button activates Bluetooth and the advertising mode.</p>	

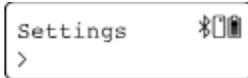
3.3. Pairing Code

This item is only shown during the first connection setup with a device and is used to display the pairing code and connection status.

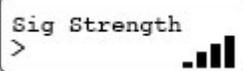
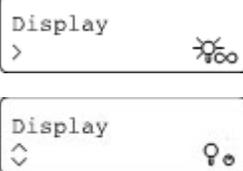
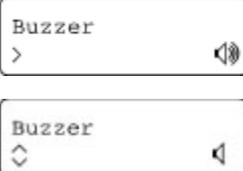
Setting	Display	Meaning	
Pairing Code		<p>This menu is only shown the first time a connection is established with a device and is used to display the connection key.</p>	
Pairing success		<p>Connection successful</p>	<p> Pairing defines the establishment of a connection between an Bluetooth device and the AirID Bluetooth reader. Since the pairing information is retained even if the devices are turned off, it is not necessary to pair the same devices again. To pair, the device prompts you to read a code from the AirID and enter it into the connected device or compare it with the code displayed on the device.</p>

Pairing failed		Connection failed. The following errors may occur: <ul style="list-style-type: none"> • Pairing fail 1: Pairing canceled • Pairing fail 4: Pairing code wrong • Pairing fail 23: Time out 	
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3.4. Settings



Under the menu **Settings**, you can configure settings for your AirID . Use the right button to select and confirm the settings.

Setting	Display	Meaning	
Settings		Main window	
Sig Strength		Select the signal strength of the AirID. Possible configurations are: 1-4 bars	
Advertising		Use the right button to set the advertising mode (Connection via Bluetooth) to permanent or EcoMode	<div style="border: 1px solid #ffc107; padding: 5px; margin-bottom: 5px;">  If during the active advertising mode (EcoMode) no connection to a device is established, the advertising mode switches off automatically to save battery power. Therefore, a manual reconnection is necessary afterwards. </div> <div style="border: 1px solid #ffc107; padding: 5px;">  To save energy, a work schedule can be created via AirID Central APP. If the working hours are exceeded, the advertising mode remains deactivated. </div>
Display		Indicates the length of time the display will remain on. Select whether the display is on permanently or turns off after a while.	
LEDs		Select whether the LEDs are enabled or disabled.	
Buzzer		Activate or deactivate the acoustic feedback of the AirID.	
Force 256bit		Select if you want to force the AES 256-bit encryption of the connection between AirID and the work device	

<p>USB Card Reader</p>	<p>USB Card Reader > On</p> <p>USB Card Reader ◇ Select Off</p>	<p>If the AirID is connected via USB to the working device, you can select whether the AirID should be used as a USB card reader (CCID) or not. If the AirID is not used as USB reader, the AirID is only supplied with power via USB and thus charged.</p>	
<p>Reset Keys</p>	<p>Reset Keys ◇ Confirm: No</p> <p>Reset Keys ◇ Confirm: All</p> <p>Reset Keys ◇ SBA-CG</p>	<p>This setting deletes the saved keys (LTK and SK). You have the option to delete all keys or only the keys for a specific device.</p>	
<p>Remove Pairing</p>		<p>This setting deletes the saved pairing information and the keys. This is recommended when passing AirID to third parties. You have the option to delete all keys or only the keys for a specific device. After the removal, a new pairing is necessary to re-established a connection.</p>	
<p>Factory Reset</p>	<p>Factory Reset ></p>	<p>This setting reset the AirID to factory settings. All pairing keys are also deleted.</p>	
<p>Distance Sensor oder Coverage</p>	<p>AirID 2</p> <p>Distance Sensor / Off</p> <p>Distance Sensor ◇ Select: On</p> <p>Distance Sensor ◇ Presetting</p> <p>Distance Sensor ◇ Near</p> <p>Distance Sensor ◇ Mid</p> <p>Distance Sensor ◇ Far</p> <p>Distance Sensor ◇ Manual setting</p> <p>Distance Sensor >RSSI -63dB On</p>	<p>The AirID reader can lock your WINDOWS or mobile (iOS or Android) apps (if configured) automatically, if a (preset) distance between your computer and your AirID has been exceeded. The "Distance Log-Out" is managed in AirID settings using "Distance Sensor".</p> <p>This setting is optional and can only be configured if there is an active Bluetooth connection to the a device.</p> <p>You can use presettings or set the distance manually.</p> <p>Following presettings are available:</p> <ul style="list-style-type: none"> • Near (~ 65 dB) • Mid (~ 75 dB) • Far (~ 80 dB) <p>In comparasion to the possible presettings, the manual setting allows an individual fine adjustment.</p> <p>If the manual setting is selected, the curent RSSI value is shown in the display. Slowly walk around in the area you want your device to remain unlocked. Press the jog dial at the preferred distance to confirm the coverage area and activate the Distance Sensor function.</p>	<div style="border: 1px solid orange; padding: 5px; margin-bottom: 10px;">  Settings can only be changed with an active Bluetooth connection between your computer and AirID reader. </div> <div style="border: 1px solid green; padding: 5px; margin-bottom: 10px;">  To avoid unintended disconnects, keep in mind that the minimum distance for the automated log-out is about three meters between your computer and AirID reader. </div> <div style="border: 1px solid green; padding: 5px;">  The distance value for the "Distance Sensor" feature represents a relative value. It depends on the signal strength of the AirID, on the environment and on other interfering signals. </div>

Update Firmware	<div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Update Firmware ></div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Update Firmware ◇ Confirm: No</div> <div style="border: 1px solid black; padding: 2px;">Update Firmware ◇ Confirm: Yes</div>	Select this setting to enable the bootloader mode for flashing a new firmware. An USB connection to your Windows PC or Mac is required.	
Back	<div style="border: 1px solid black; padding: 2px;">Back <</div>	Select Back to return to the main menu.	

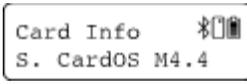
3.5. AirID Info

Under AirID Info you will find further information about the AirID.

Setting	Display	Meaning
Serial Number	<div style="border: 1px solid black; padding: 2px;">Serial Number 5640002000</div>	Serial number of the AirID
IEEE Adress	<div style="border: 1px solid black; padding: 2px;">IEEE Address 0x20CD399F945E</div>	Bluetooth address of the AirID
Received	<div style="border: 1px solid black; padding: 2px;">Received RSSI -dB: 53</div>	The received signal strength (only with active Bluetooth connection)
Battery	<div style="border: 1px solid black; padding: 2px;">Battery 90%</div>	Battery percentage indicator
Time	<div style="border: 1px solid black; padding: 2px;">Time Thu 14:08</div>	Current time and day
Board	<div style="border: 1px solid black; padding: 2px;">Board Ver 5.6 rev 9</div>	Version of the AirID board
Bootloader	<div style="border: 1px solid black; padding: 2px;">Bootloader Ver 201610</div>	Version of the AirID bootloader
Firmware	<div style="border: 1px solid black; padding: 2px;">Firmware 1.2.0</div>	Version of the AirID firmware version
Back	<div style="border: 1px solid black; padding: 2px;">Back <</div>	Select Back to return to the main menu

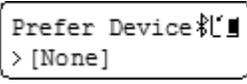
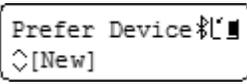
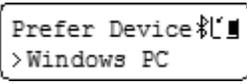
3.6. Card Info

Setting	Display	Meaning
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Card Info only on AirID 1		Displays information about the inserted smart card. These information is only displayed if the smart card is correctly inserted and recognized/ supported.
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3.7. Preferred Device

Under "Prefer Device" the pairing information of the AirID with the already connected devices are stored. From these information you can select to which device the AirID should preferably be connected in the future. All other devices will be ignored.

Text	Anzeige	Bedeutung
None		If no device is selected, a BLE connection to any of the surrounding devices is possible.
New		Select the option New to connect AirID to a new, not yet paired device. All other devices paired with AirID will be ignored.
"device name"		If your AirID was already paired with several devices, you choose the device name to select which device the AirID should preferably be connected to in the future. All other devices will be ignored.

 The pairing information with up to 10 different devices can be stored at the same time.

4. Firmware Update

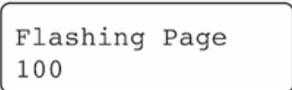
certgate is constantly working to make AirID even more reliable and faster. Therefore we provide firmware updates for our wireless smartcard readers under [AirID Software, Driver & SDK](#) from time to time. Please install a firmware update as soon as it is available as it improves the reliability of the reader.

The AirID firmware can be updated via USB on Windows or MacOS Pcs. Download the latest firmware from our website and unzip the file. Below you will find the necessary steps for the update.

1. Under **Settings**, select **Update Firmware** and navigate to **Confirm: Yes** and select it
2. Connect your AirID with USB-cable to a Windows computer or Mac.
3. The AirID should display: "**Send update or unpower to exit**"
On a PC running WINDOWS operating system
4. Open the folder with the firmware and click on "**flash_gecko.bat**" file
On a MacOS
5. Open the folder with the firmware and click on the "**flash-gecko.command**" file
6. After the update the AirID will reboot automatically.

The AirID restarts and has been updated. You can use it with your smart card.

 If the update fails, the update process is interrupted or the AirID doesn't start anymore, go to Step 2 and repeat the process.



5. Using AirID

AirID supports various operating systems like Windows, MacOS, Linux, iOS and Android. The basic requirement is the Bluetooth Low Energy functionality of the device. When AirID is successfully paired and the driver is installed, the inserted smart card is available to be used for cryptographical operations such as authentication or data encryption. This requires an applet on the smart card and the corresponding middleware for the operating system used.

The AirID software consists of two components:

1. **AirID Central App** - a management software for your AirID forming the basis for usage of the device. The tool provides you with information and setting options for your AirID when your reader is connected to your device.
2. **AirID drivers**, which ensures the communication between the AirID and the operating system, must be installed additionally depending on the platform or is already integrated in the Apps and solutions of third party vendors.

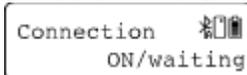
AirID can be used with different terminals and platforms, but not in parallel operation.

5.1. Windows

The use of AirID under Windows is only possible as of Windows 8.1 due to the Bluetooth Low Energy functionality required. For use under Windows 7, an [ONEKEY BRIDGE](#) is additionally required.

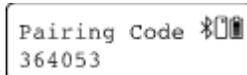
5.1.1. Installation and Pairing

1. Download the latest installer (zipped .msi file) for Windows at [AirID - Software, Driver & SDK](#).
2. Unzip and double click on the .msi installer file.
3. Follow the instructions in the installation wizard.
4. The AirID Windows driver and the AirID Central App are now installed.
5. Insert your smart card to power on the AirID reader and activate Bluetooth at the AirID reader by navigating to the connection menu and pressing



the right button. The AirID should display:

6. Open Windows **Settings Devices Bluetooth**. Your AirID should be listed with its serial number. Press **"Pair"**



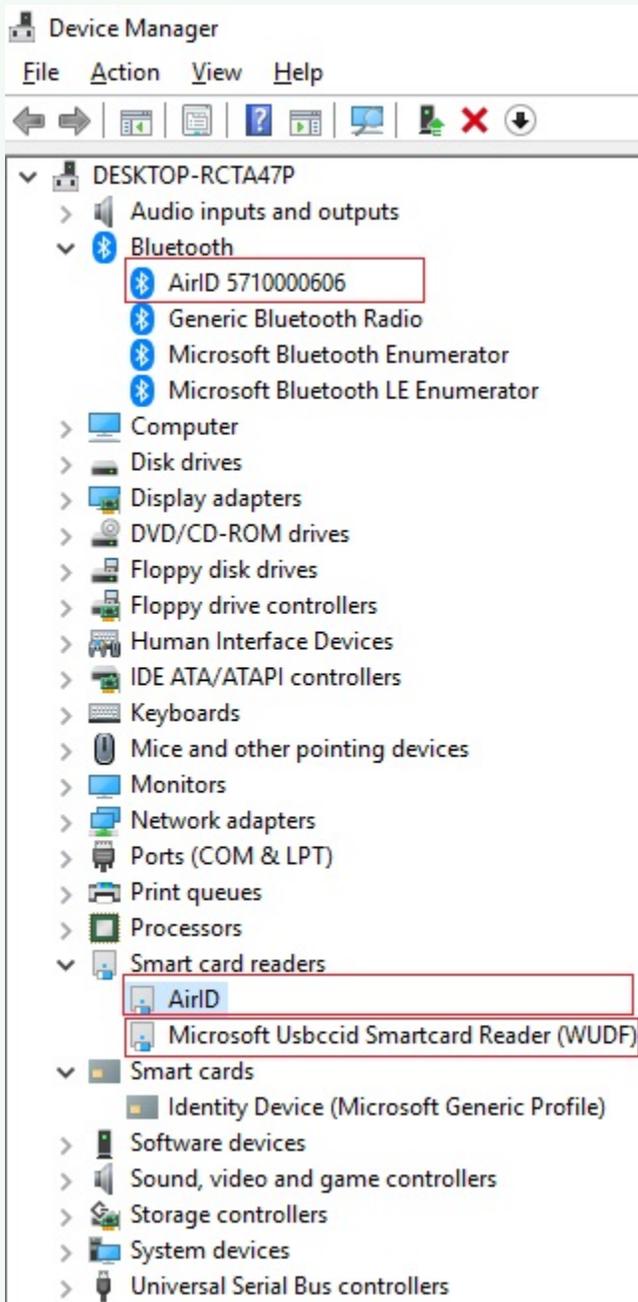
7. Compare the 6 digit pairing key shown on AirID display with the pairing key on the Windows 10 PC. If the PIN matches press **Connect** on the Windows 10 system and choose **Yes** on the AirID by scrolling down in the menu and pressing the right button
8. After successful pairing, **"Your device is ready to go!"** and the AirID serial number will be displayed on the Windows system and the device name of the paired device will be displayed on the AirID.

The AirID can now be used.



If there are any problems with the pairing process, restart the process. If necessary, delete the stored pairing information (see 5.1.2 "Deleting the Connection")

- ✓ After the driver has been successfully installed and paired, AirID is displayed as follows under **Device Manager**. AirID is detected as "Microsoft USBCCID Smartcard Reader" if it is connected via USB.



5.1.2. Deleting the Connection

The pairing information are stored on both the Windows system and AirID. To terminate the connection completely, the information on both sides must be deleted.

On Windows

1. Open the Bluetooth settings on Windows (**Settings- Devices - Bluetooth**)
2. Select the corresponding AirID using the displayed serial number and click on **"Remove Device"**
3. Click **"Yes"** to confirm the removal of the device.

On AirID

Delete All Pairing Information

To delete all stored pairing information from AirID a **"Remove Pairing"** can be performed in the **Settings** menu.

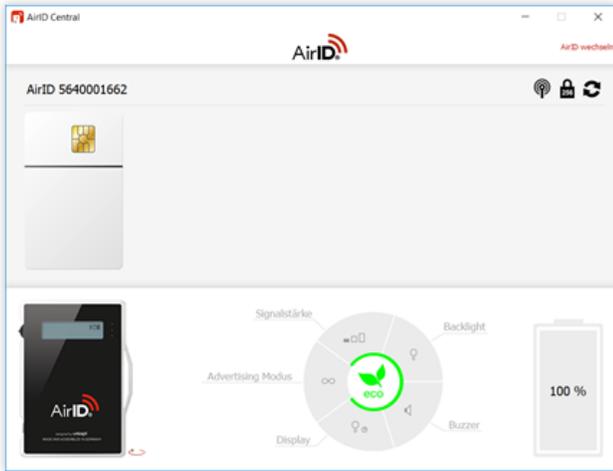
Delete Specific Pairing Information

To delete specific pairing information from AirID a **"Remove Pairing"** of the Windows workstation can be performed in the **Settings** menu.

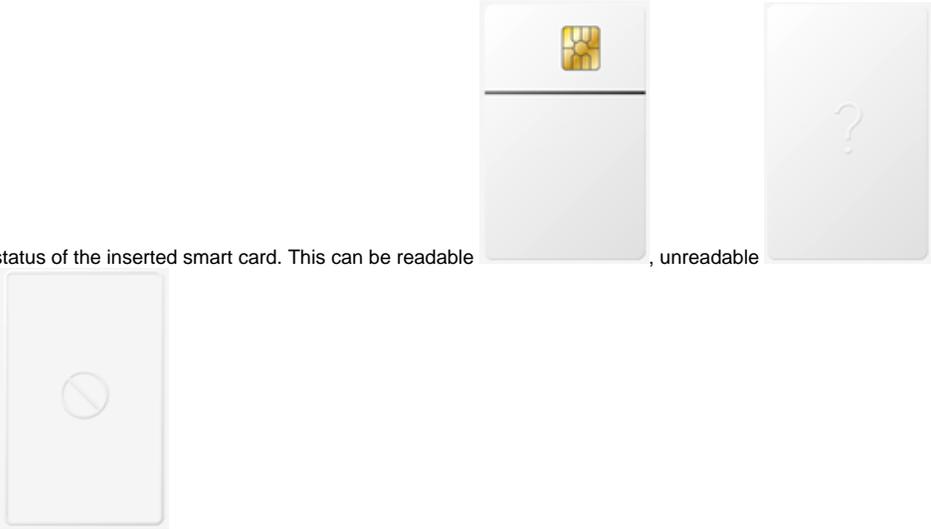
The pairing information can also be deleted via AirID Central App. To do this, go to the paired devices view, select the corresponding device from the list and click **Delete**.

5.1.3. AirID Central App on Windows

AirID Central provides information and setting options for your AirID once your AirID is connected to your Windows device. If there is no connection, **"No device"** is displayed in the AirID Central.



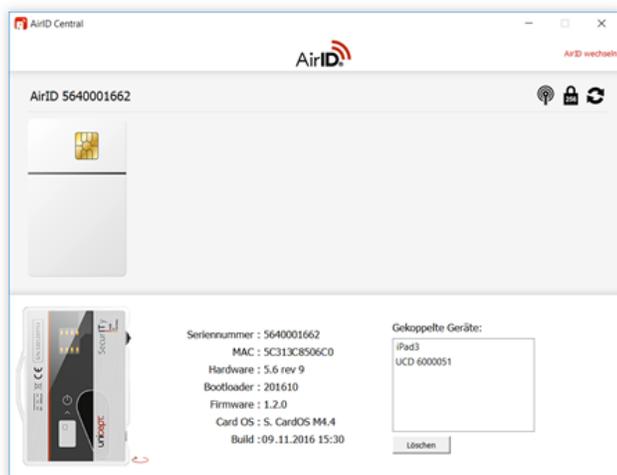
AirID Central as an AirID management software, provides an overview of:

Function	Description
Serial Number	Displays the serial number of the connected AirID
Card Status	<p>Displays the status of the inserted smart card. This can be readable, unreadable or no</p>  <p>card inserted</p>
Distance Sensor or Coverage Feature	<p>Displays if the coverage feature is activated or not</p> 

Encryption	  <p>Displays if the AES encryption is set to 128 or 256-bit</p>
Refresh	 <p>Checks if there is an older firmware and offers a firmware update if necessary.</p>
Change AirID	Displays the list of the connected AirID readers from which you can select one.
Battery Status	Displays the battery level in percent. The green flash symbol indicates an active charging process.
Signal Strenght	Select the signal strength of the AirID
Buzzer	Select if an acustic feedback is required
Display	Select if the display should always be on or only for a certain time
Advertising	Select if the advertising mode for the connection to a device should always be on or only for a certain time. An individual work schedule to save energy can also be created with AirID Central. The advertising mode remains deactivated after the defined working hours.
Serial Number	Shows the serial number
MAC	Shows the MAC-address
Hardware	Shows the boardversion
Bootloader	Shows the bootloader version
Firmware	Shows the firmware version
Card OS	Card OS of the inserted smart card
Connected devices	Shows a list of devices for which AirID stores connection information. The connection information can be deleted by deleting the device from the list.

 If during the active advertising mode (EcoMode) no connection to a device is established, the advertising mode switches off automatically to save battery power. Therefore, a manual reconnection is necessary afterwards.

The following information is displayed when clicking on the AirID device displayed in the AirID Central App:



Function	Description
Serial Number	Serial number

MAC	MAC-Address
Hardware	Boardversion
Bootloader	Bootloader Version
Firmware	Firmware Version
Connected devices	Shows a list of devices for which AirID stores connection information. The connection information can be deleted by deleting the device from the list.

A right click on the AirID Central icon in the Windows notification area opens a menu with the following application functions:

Menu	Meaning
Reestablish	Opens the AirID Central App window in the foreground
Settings	If the AEM is used, enter the URL of the AEM server in the corresponding field. Select whether to lock your computer when the smart card is removed from the AirID. Note: Please note that the computer lock configuration has a higher priority in the Windows Policy and therefore this option cannot be selected via AirID Central.
System Log	Displays a log of the system log entries that you can use to track activities and processes
Bridge	Displays the ONEKEY Bridge and the settings you can do.
Change PIN	PIN change function for the inserted smart card
About	Shows the AirID Central version and the developer information
Close	Closes the AirID Central App

5.2. iOS

Under iOS system-wide support of smart cards and card readers is not possible. Therefore, the AirID driver needs to be integrated into an app to use AirID with this specific app. These apps usually interact with the available AirID Central App via extension or keychain.

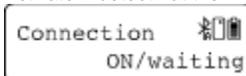


The AirID Central App, as well as other AirID Sample Apps, is available in the App Store.

The connection to the the iOS device is only active when the app in foreground is open. As soon as the app goes into the background, the Bluetooth connection to the AirID is released again.

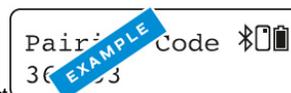
5.2.1. Pairing

1. Go to the App Store on your iOS device and search for AirID Central
2. Install the AirID Central App on your iOS device
3. Insert your smart card to power on the AirID reader
4. Activate Bluetooth at the AirID reader by navigating to the connection menu and pressing the jog dial control element. The AirID should display:



5. Make sure that Bluetooth is activated on your iOS device (**Settings > Bluetooth > On**)
6. Open the AirID Central App
7. Select the AirID (serial number) in the shown device list

8. Compare the 6 digit pairing code shown on AirID display and confirm it to connect



9. After a successful pairing, the AirID shows:

Pairing
success



If you already paired AirID with another device that are switched on and close to you, please navigate to **"Prefer Device"** in the AirID menu press the jog-dial and choose **"New"**. Then press the jog-dial again to confirm.

5.2.2. Deleting the Connection

The pairing information are stored on both the iOS device and AirID. To terminate the connection completely, the information on both sides must be deleted.

On iOS

1. To delete the device information from the AirID Central App, first select the function **"Forget AirID"** in the AirID Central
2. Then open the iOS Bluetooth settings on the iOS device (**Settings Bluetooth**)
3. Select the AirID using the displayed serial number and tap the blue Info button
4. Tap on **"Ignore this device"** to delete the pairing information

On AirID

Delete All Pairing Information

To delete all stored pairing information from AirID a **"Remove Pairing"** can be performed in the **Settings** menu.

Delete Specific Pairing Information

To delete specific pairing information from AirID a **"Remove Pairing"** of the Windows workstation can be performed in the **Settings** menu.

5.3. Android

Under Android system-wide support of smart cards and card readers is not possible. Therefore, the AirID driver needs to be integrated into an app to use AirID with this specific app. These apps usually interact with the available AirID Central App via keychain.

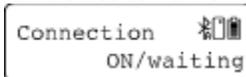


The AirID Central App, as well as other AirID Sample Apps, is available in the Play Store.

The connection to the the Android device is only active when the app in foreground is open. As soon as the app goes into the background, the Bluetooth connection to the AirID is released again.

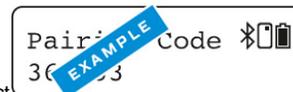
5.3.1. Pairing

1. Go to the Play Store on your Android device and search for AirID Central
2. Install the AirID Central App on your Android device
3. Insert your smart card to power on the AirID reader
4. Activate Bluetooth at the AirID reader by navigating to the connection menu and pressing the jog dial control element. The AirID should display:



5. Make sure that Bluetooth is activated on your Android device (**Settings > Bluetooth > On**)
6. Open the AirID Central App
7. Select the AirID (serial number) in the shown device list

8. Compare the 6 digit pairing code shown on AirID display and confirm it to connect



9. After a successful pairing, the AirID shows:

Pairing
success



If you already paired AirID with another device that are switched on and close to you, please navigate to **"Prefer Device"** in the AirID menu press the jog-dial and choose **"New"**. Then press the jog-dial again to confirm.

5.3.2. Deleting the Connection

The pairing information are stored on both the Android device and AirID. To terminate the connection completely, the information on both sides must be deleted.

On Android

1. To delete the device information from the AirID Central App, first select the function "**Forget AirID**" in the AirID Central
2. Then open the Android Bluetooth settings on the device (**Settings Bluetooth**)
3. Select the AirID using the displayed serial number and tap the blue Info button
4. Tap on "**Cancel pairing**" to delete the pairing information

On AirID**Delete All Pairing Information**

To delete all stored pairing information from AirID a "**Remove Pairing**" can be performed in the **Settings** menu.

Delete Specific Pairing Information

To delete specific pairing information from AirID a "**Remove Pairing**" of the Windows workstation can be performed in the **Settings** menu.

6. Technical Specification

Item	AirID2 Mini
Enclosure	
Shape	similar to a car key
Dimension	72 x 38 x 15 mm
Weight in g	40
Human interface	
Display type	LCD, 128x128
Display size	ca. 25 x 25 mm
Control element	2 button logic
USB port	USB-2.0-Micro-B
LED visible	3 LEDs red: on while charging blue: on while active Bluetooth connection green: on while smart card powered on
Acoustic feedback	Buzzer
Bluetooth	
Bluetooth Version	4.2
Battery	
Battery type	Built-in rechargeable lithium-polymer battery
Capacity	ca. 500mAh
Battery charging	via USB
Smart card interface	
smart card size	ID000, contact interface (ISO7816)
smart card type	3V
Smart chip protocol	T=0, T=1
NFC antenna	NFC antenna for NFC enabled dual interface ID-000 card via C4 and C8 ISO7816
Update	

Firmware update	via USB
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7. Safety Instructions

- Protect the device from dirt, dust, moisture, chemicals and extreme temperatures and use it only in dry rooms.
- Use only original, approved accessories intended for this purpose for the device.
- Do not use the product in the immediate vicinity of heating, other heat sources or in direct sunlight.
- Do not expose the device directly to magnetic sources.
- Do not drop the product and do not expose it to violent shocks, drops, shocks or vibrations of any kind.
- Do not attempt to service or repair the product yourself or have it serviced or repaired by an unauthorized service or person.
- Do not make any unauthorized modifications to the software or hardware.
- Do not open or operate the product if damaged.
- Improper use may damage the product or connected devices.
- To charge the battery, use only standardized charging cables and power sources (5V DC) to avoid overcharging. This could damage the battery.

8. Disposal and Recycling

The device must not be disposed of with household waste. B2B equipment must be returned to the manufacturer.

9. Maintenance and Care

Clean the device only with a soft, clean and dry cloth. Do not expose the device to harsh chemicals, cleaning solutions or strong cleaning agents. Do not allow liquid to penetrate the product.

10. Warranty/ License/ Technical Support

Please note our regulations at [Terms and Conditions & Legal Documents](#)

Please note that only customer with a valid support and maintenance agreement are authorized to get free support services.

1. 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.
 - (2) This device must accept any interference received, including interference that may cause undesired operation.
2. 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 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.

This device was tested typical body-worn operation, to comply with RF exposure requirements, a minimum separation distance of 5mm must be maintained between the user's body and [AirID](#) including the antenna, third-part-belt-clips, holsters, and similar accessories used by this device should not contain any metallic components.