



PARKLIOTM BRAIN

USER MANUAL



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Statement of Conditions

In the interest of improving internal design, operational function, and/or reliability, Parklio™ reserves the right to make changes to the products described in this document without notice. Parklio does not assume any liability that mayoccur due to the use or application of the product(s) or circuit layout(s) described herein.



Thank you for the confidence you have shown us by purchasing our Parklio Brain.

Please read this manual first!

Dear Customers,

We hope that all your expectations of this product will be fulfilled. Parklio™ Brain is manufactured using the latest technologies and has undergone rigorous quality control procedures.

The User Guide will help you use your product quickly and safely.

- Read the user manual before installing and using your product.
- Always follow the safety instructions.
- Keep this user manual at hand for future reference.

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1. Package Contents

The product package should contain the following items:

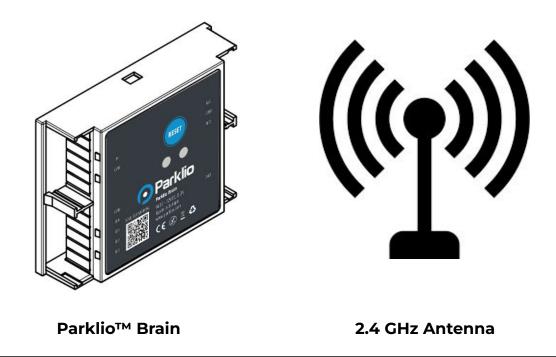


Table 1.1 - Package Contents

If any of the parts are incorrect, missing, or damaged, contact your Parklio[™] dealer. Keep the carton, including the original packing materials, in case you need to return the product for repair.

NOTE

 A 2mm or 3 mm flat head screwdriver and a 8mm wrench is needed for installation

2. Features

Parklio™ Brain is a universal electronic module that will turn any existing products into a smart one. Parklio™ Brain enables control of the existing parking solutions with a smartphone. By integrating the module, it will be possible to benefit from all the advantages of smart Parklio™ solutions - control via free smartphone app, key sharing options, real-time information, user-friendly management and possibility of integration with any other systems. With this assistive technology solution, automatic and reliable access control is possible on all existing facilities with Parklio™ Brain. With this smart electronic module, the user is never more than a few seconds away from any piece of digital information. From parking product status to occupancy information, it is all there in an instant. The brain makes products smartphone-controlled, with a key sharing option. All the smart parking options offered by Parklio™ can now be integrated with your existing parking products. Parklio™ brain is a universal and unique electronic model so it can fit all your outdated products. You will be able to control your existing parking products with your smartphone and enjoy all the functionalities the system is providing. After making phones and homes "smart", it is time to make parking products smart with Parklio™ Brain. Implementing a new hardware solution like a Parklio™ Brain is a short and easy consuming process. Parklio™ Brain can be interfaced with a mobile phone or with the Parklio™ Gateway to be controlled from Parklio™ PMS. In this way, monitoring of your parking products has never been easier. The Parklio™ Brain is installed in the access control's solution control panel and interfaces with the existing control board. It is rated for operation in environments with temperatures ranging from -20 °C to +60 °C and it allows smartphone-controlled on the range of 50 m in open space with the provided antenna.

3. Hardware Overview



Figure 3.1 - Status and connection board

1	Power terminal	Connectors for powering the Parklio Brain
2	Input terminals	Input terminals for receiving info about the device controlled by Parklio Brain
3	Relay terminals	Output terminals for providing open/close command to the device controlled by Parklio Brain
4	Antenna connector	SMA female connector for connecting the 2.4 GHz antenna provided with the Parklio Brain
5	Reset button	Hold to reset the Parklio Brain to the default settings
6	Power LED	RED light - Parklio Brain is powered on
7	Status LED	GREEN light - activity of the Parklio Brain

Figure 3.1 - Connection and status board

4. Technical Specification

Parameter	Value
Input Voltage	8 VDC ~ 32 VDC
DC Current (Typ.)	~20 mA normal operation, add 2 mA for each active pullup maximum 100 mA
Inrush current	0.5 A
Working temperature range	e -20 °C - +60 °C
Working humidity	Up to 90 % RH
Operating altitude	1000 m
Ingress rating	IP 44
Dimensions	31.25 mm x 70 mm x 89.6 mm (H x W x D)
Weight	100 g
LED	1 x power LED, 1 x status LED
Wireless Connectivity	BLE
Over-the-Air upgrades	Yes
Antenna interface	External 2.4 GHz antenna with SMA connector
Color	Light grey and black
Max. supported connections	max. 4 user may be connected to the device
Battery backup	CR1620, for clock only, non-user replaceable
Standards	RoHS compliant DIN EN 60715 TH35, DIN VDE 0470-1, DIN 43880 unit 1, REACH compliant, VBG 4, IEC 529
Regulatory standards	EN60950-1:2006 + A1:2010 + A11:2009 + A12:2011 EN 300 328 EN 61000-6-2 EN 300 440 EN 61000-4-2 EN 301 489 - 1 EN 61000-4-3 EN 301 489 - 3 EN 61000-4-4 EN 301 489 - 17 EN 61000-4-5 EN 55024 EN 61000-4-6 EN 55032 EN 61000-4-8 EN 61000-3-3 EN 61000-3-2

Table 4.1 - Technical Specifications

5. Hardware Setup

Before You Begin

■ 5.1. Input/output list

To connect the Parklio brain to the desired control unit, use cables up to 1mm²

V+	Positive power supply input
сом	Negative power supply input
ANT	Connector for external antenna
10 0	Input/output terminal, can be configured through the mobile application
IO 1	Input/output terminal, can be configured through the mobile application
IO 2	Input/output terminal, can be configured through the mobile application
10 3	Input/output terminal, can be configured through the mobile application

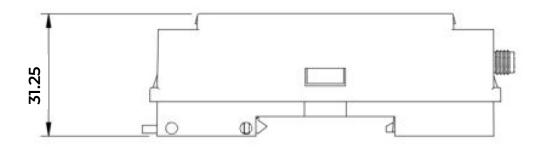
Table 5.1 - Input/output list

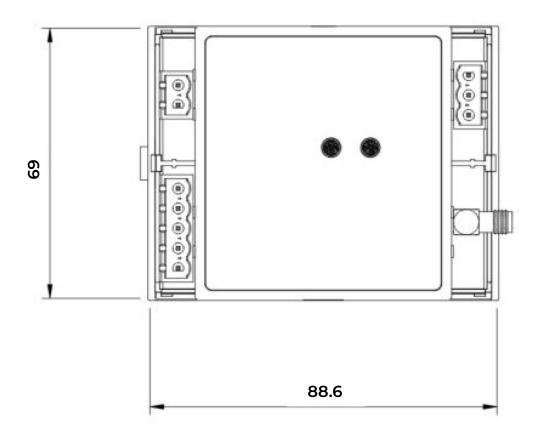
■ 5.2. Connecting steps

Step 1	Connect the V+ terminal on the Parklio Brain to the VDC (9-32VDC) terminal on the control unit.
Step 2	Connect the COM terminal on the Parklio Brain to the COM terminal on the control unit.
Step 3	Connect the provided antenna to the ANT connector on the Parklio Brain. (Antenna needs to be previously mounted on the desired spot!)

Table 5.2 - Connecting steps

6. Dimensions





7. Reset and Add Parklio Brain

To reset the Brain, Press and hold a Reset button on the Parklio Brain until the Green light turns on.

To add the Parklio Brain, click to add a new device through the Parklio Connect mobile application, and search for the device with the name stated on your Parklio Brain or scan the QR code from the Parklio Brain.



Parklio | Smart parking solutions

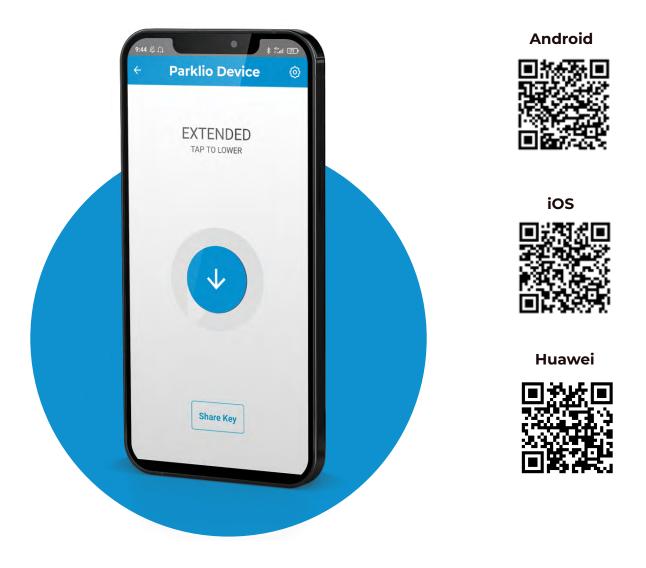
e: info@parklio.com | w: www.parklio.com

m: + 385 97 724 7276

7. Installing the application

This section will provide detailed instructions on how to connect the mobile application with a product and how to control a product using the free Parklio connect mobile application.

The application can be downloaded by scanning the following QR codes:



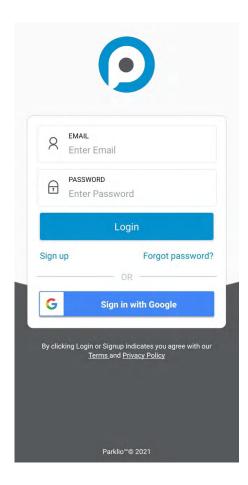
Or on the following links:

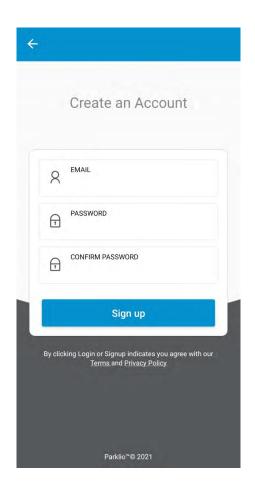
Android - https://apple.co/2iaV7aA

Huawei - https://urldre.cloud.huawei.com/mCe8Pn0uD6

■ 7.1. Register and login

To use Parklio Connect the user needs to be logged in. An user may login with an existing Google account, an Apple account, or the user may create and use a Parklio account with their email.





To login via Google simply press the Sign in with Google button.

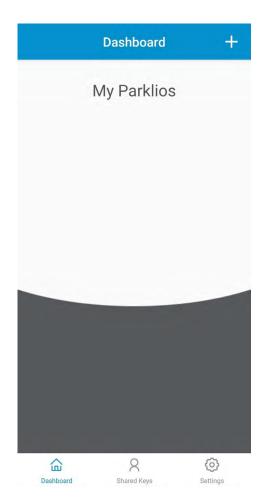
To login via Apple account simply press the Sign in with Apple ID button.

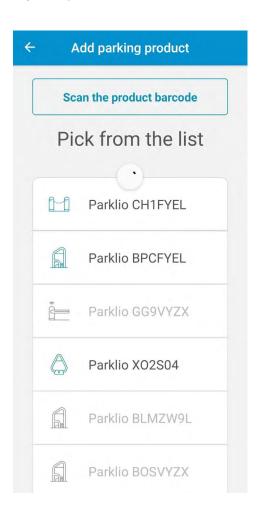
If the user has an existing Parklio account enter your email and password associated with the account into the corresponding fields and press *Login*.

In case a Parklio account has not been created previously press the *Sign Up* button which will open a new screen. There the user may input his email and password to create an account. After an account has been created the user may use his credentials to login into the application.

■ 7.2. Adding a product to your account

After logging in the dashboard containing all your parklio devices will be displayed.





To add a product to the account press the + button on the top right corner of the dashboard. The Add parking product screen opens and the smartphone starts scanning for nearby Parklio devices. This step should be done in close proximity to the Parklio device you are adding.

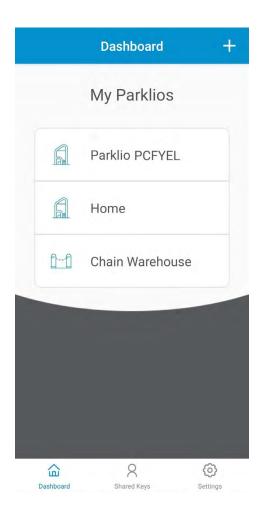
Grayed out devices represent Parklio devices that are already set up. When the scanning is complete select the device you wish to add from the list of available devices. The device will be set up automatically and added to the users account.

In the above example screenshot by clicking on *Parklio BPCFYEL* the application starts the process of setting a product up. The process is automatic and the user is notified at the end.

■ 7.3. Connecting to your product

To be able to operate your product, view the state and change your product settings it is necessary to connect to your product.

This is done by going to the Dashboard and clicking on your product to connect to.





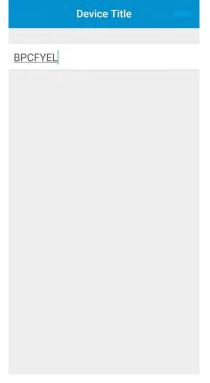
After a successful connect the screen will show a product status:

- PARKLIO LOWERED Indicates your product is down (open)
- PARKLIO EXTENDED Indicates your product is up (closed)
- PARKLIO EXTENDING Indicates your product is moving up (closing)
- PARKLIO LOWERING Indicates your product is moving down (opening)
- AUTHENTICATION FAILED There was an error with communication to your product or with your product digital key, the key was probably reset

Change the device name

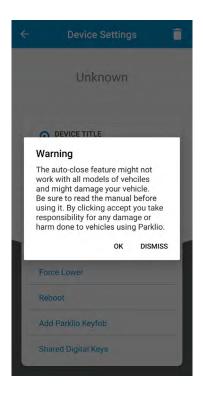
Parklio devices allow the user to change their name, so they can be more easily identified. To change the device name click on the *DEVICE TITLE* in the settings. Change the name of the device and click *SAVE*. The new name will now be dis-

played.



Change auto-close settings

To enable barrier auto-close toggle the auto-close button. A warning message will be displayed. To change the auto-close interval press the *Auto-close* Time button. The user may choose an auto-close time interval form 5 s to 120 s.



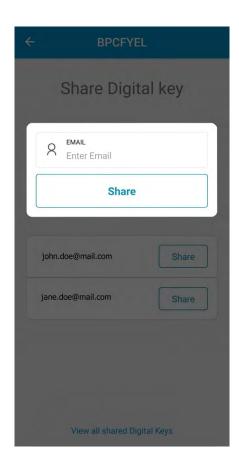
Key sharing

An important feature of all Parklio products is the option for key sharing. The application allows the owner of the device to share the digital key of his device.

To use this feature an internet connection is required. It is not required to be connected to a barrier via bluetooth.

All keys have a validity period, the key becomes active at the start date and is valid until the end date. A key may be shared to multiple users and multiple keys may be sent to one user.

In order to share a key press the Share Key button on the main barrier screen.





The first step is to enter the email of the user to whom the key will be shared or to choose from the list of previously shared users.

Next, it is required to select the key *START TIME* and *END TIME* using the calendar. After the start and end time are set press the Share Key button and confirm.





Blocking shared keys

If it is necessary to remove access from a user to whom a key was shared it is possible to do this from the Parklio Connect application.

To use this feature an internet connection is required. It is not required to be connected your product via bluetooth.

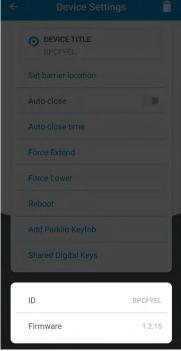
In the Device Settings > Share Digital Key screen, press the View all shared Digital Keys at the bottom of the screen. All keys shared for the selected device are displayed. To block a certain user click on the Block button next to the user. Share keys can also be viewed from the Device Settings screen by clicking on Shared

Digital Keys.



Product information

Product information such as the Barrier ID and Firmware version is displayed at the bottom of the settings screen.



Removing your product

In order to remove a product from your account or to delete a key which was shared to you enter the *Device* Settings screen and press the garbage can icon. A confirmation will pop up, press *Yes*.

When a device is deleted from your account all sent guest keys are still valid. They can only be invalidated by performing a product key reset or when a product is added to another account.

