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# 1 Introduction

## 1.1 General Information

This Quick Guide enables safe and efficient handling with the WiCAR®.

The Quick Guide forms a component of the WiCAR® and must be stored in close proximity to the WiCAR® so it can be accessed by personnel at any time.

In this Quick Guide, the current edition of the WiCAR® is described. Should changes or additions become necessary over the course of time, then the Quick Guide will receive an addendum, which will be incorporated in the next revision.

The respective edition of the Quick Guide is displayed on the back page and in the footer.

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No warranty is provided for software that has been modified, enhanced or damaged, unless the modification, enhancement or damage was not the cause for the deficiency.

## 1.3 Guide to the Symbols

### 1.3.1 Symbols

Handling instructions are presented as follows:

To perform a task, please proceed as follows:

1. Do this.
2. Do that.
  - ◆ This intermediate result is subsequently achieved.
3. Do such and such.
  - ✓ You have performed the task.

Bullet points are presented as follows:

- Primary bullet point
  - Secondary bullet point
  - Secondary bullet point
- Primary bullet point



#### NOTE

- ▶ Useful information
-

## 1.3.2 Warning Symbols and Mandatory Symbols



General warning

---



Warning of electrical voltage

---



Usage tips and other useful information

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## 1.4 Notes on Data Traffic

- The establishing of an Internet connection depends on the use of a mobile telecommunications tariff with an integrated data option.
- The transmission speed depends on the infrastructure of the respective network operator, the current signal strength and the number of users in a radio cell.
- The WiCAR<sup>®</sup> does not have a SIM lock, and can therefore be operated with all SIM cards with a data tariff.

## 1.5 Name Plate

The name plate is located underneath the WiCAR®.

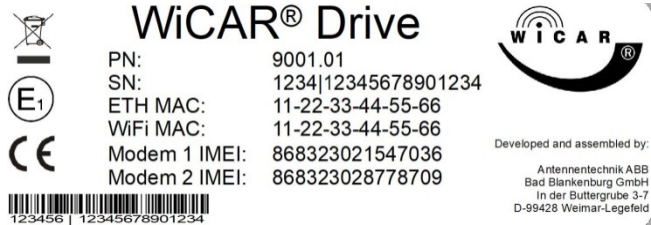


Figure 1 Name Plate (Example)

- Product number
- Serial number
- MAC address, Ethernet
- MAC address, WiFi
- IMEI, modem 1
- IMEI, modem 2
- Logo and manufacturer

## 1.6 Contact Address

DesaySV Automotive Europe GmbH  
In der Buttergrube 5  
99428 Weimar, Germany

Tel.: +49 (0) 3643 4771-100  
Fax: +49 (0) 3643 4771-190

[www.wicar.de](http://www.wicar.de)  
[info@wicar.de](mailto:info@wicar.de)



## **1.7 Obligations of the Operating Company**

The WiCAR® is used in a commercial context. The operating company must observe the legal obligations regarding occupational safety.

The safety instructions of this Quick Guide must be complied with. Additionally, local safety, accident prevention and environmental regulations must be observed.

Also pay attention to the local regulations regarding the operation of a public WLAN network.

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## **2 About the WiCAR®**

### **2.1 Using the WiCAR®**

#### **2.1.1 Intended Use**

The WiCAR® acts as an automotive gateway which provides an online connection via an LTE modem.

The WiCAR® has been designed for operation in a motor vehicle with 12 - 48 V vehicle voltage and is used in a commercial context.

#### **2.1.2 Foreseeable Misuse**

Use of the WiCAR® which is different to or goes beyond that described in the chapter 2.1.1 Intended Use is considered to be improper use and thus incorrect.

### **2.2 Technical Data**

#### **2.2.1 Dimensions and Weight**

Length [mm]	168
Width [mm]	105
Height [mm]	38
Weight [g]	450

## 2.2.2 Electrical Specification

Min. current [A]	650 $\mu$ A at 12 V (deep-sleep mode)
Max. current [A]	0.8 at 12 V
Min. voltage [V]	10
Max. voltage [V]	48

## 2.2.3 Further Specifications

### Supported Mobile Telecommunications Standards

- LTE
  - Broadband:  
100 Mbit/s (download) / 50 Mbit/s (upload)
  - 3 GPP E-UTRA Release 9
  - Supported frequencies:  
800/850/900/ MHz  
1800/2100/2600 MHz
- HSDPA
  - Broadband:  
42 Mbit/s (download) /  
5.76 Mbit/s (upload)
  - Supported frequencies:  
2100/850/900 MHz
- GPRS, EDGE
  - Broadband:  
236.8 KBps (download) /  
236.8 KBps (upload)
  - Supported frequencies:  
850/900/1800/1900 MHz

### **WLAN Access Point**

- Supported WLAN frequencies  
2.4 GHz and 5 GHz
- WLAN standards  
IEEE802.11 a, b, g, n
- Authentication standard:  
Open with login page, WPA2-PSK

### **GNSS Receiver**

- GPS
- Glonass

## **2.2.4 Ambient Conditions**

Ambient temperature [°C]	-40 ... 75
Storage conditions [°C]	-40 ... 85

Use under any other conditions is not permitted!

## **2.3 Scope of Supply**

After unpacking, check the contents are complete and look for possible damage. Included in the scope of supply:

- WiCAR®
- Manual

Optional accessories:

- Bolt-on tabs
- Power connection cable
- Antennae

## 3 Safety

### 3.1 Basic Functional Safety

For the operation of the WiCAR<sup>®</sup>, local safety, accident prevention and environmental protection regulations must also be observed.

Only operate the WiCAR<sup>®</sup>:

- according to its intended use, in a safety and hazard-conscious manner and paying attention to this Quick Guide, and
- if the WiCAR<sup>®</sup> is in a technically flawless condition.

#### Note on Operation in a Vehicle

- ▶ The driver or operator of a vehicle should **not** operate the WiCAR<sup>®</sup> while driving.

## 3.2 Warnings of a General Nature



Property damage possible due to improper installation of the WiCAR®.

- ▶ **Only** have the installation of the WiCAR® performed in a workshop. Special knowledge and skills are required for the installation.
- ▶ **Never** install or operate the WiCAR® in damp conditions.
- ▶ Protect the WiCAR® from liquids.
- ▶ Do **not** install or operate the WiCAR® in proximity to heat sources and prevent exposure to direct sunlight.
- ▶ Keep a distance of 5 cm clear on the top and to the sides so that air can circulate freely.
- ▶ **Never** open the housing of the WiCAR®.

#### **Property damage possible due to improper installation of the antenna.**



- ▶ Only have the installation of the antenna performed by a workshop. Special knowledge and skills are required for the installation.
- ▶ Use suitable cable assemblies to obtain decent reception and transmission performance and so as not to interfere with other devices.
- ▶ Ensure minimal bending radii of the antenna cables.
- ▶ Note that the WiCAR<sup>®</sup> emits radio signals during normal operation. These signals can generate interference with other radio-based devices.
- ▶ Do **not** use the mobile telecommunications antenna in the proximity of another antenna.  
Pay attention to the installation instructions and any minimum distances to other antennae or special materials.



### Property damage possible due to incorrect software updates.

- ▶ **Only** install the software updates upon instruction and with a secure power supply. An interruption to the power supply during a software update may lead to total failure of the WiCAR®.
- ▶ **Only** perform software updates with an adequately fast mobile telecommunications connection, because the transmission time may be longer than the shutdown time of the WiCAR® due to the size of the update, and so could be interrupted prematurely.



## 3.3 Electrical Hazards

### Electric shock possible due to live parts.

- ▶ Work on the electrical components must **only** be performed by an electrical specialist.
- ▶ Use suitable cable assemblies.
- ▶ Use an appropriate fuse.



## 4 Prepare for Use

### 4.1 Layout of the WiCAR®

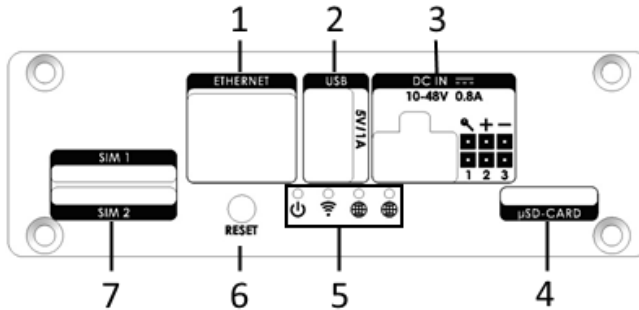


Figure 2 Front of the WiCAR® (Configuration with 2 Modems)

- 1 Ethernet interface
- 2 USB 2.0 port
- 3 Voltage supply  
Pins 1, 2, 3 for special assignments
- 4 Micro SD card slot
- 5 LEDs for status indication  
depending on equipment version
- 6 Reset button  
Brief press: WiCAR®  
restart long (min. 10 seconds) press:  
Resetting of factory settings
- 7 SIM card slot  
Depending on equipment version:  
1 modem = 1 SIM card slot;  
2 modems = 2 SIM card slots



*Figure 3 Rear Side of the WiCAR® (Configuration with 2 Modems, WLAN MIMO)*

- 1 WLAN - MIMO  
Depending on equipment version:  
1 x WIFI = WLAN;  
2 x WIFI = WLAN MIMO
- 2 LTE modem 2 - MIMO  
Depending on equipment version:  
If just 1 modem is installed, the connection is not available
- 3 GNSS
- 4 LTE modem 1 - MIMO

## 4.1.1 LED Definition



Figure 4 LED Definition (1 Modem)

- 1 Voltage supply - Power
- 2 System status
- 3 WLAN
- 4 Reception indicator for mobile Internet connection



Figure 5 LED Definition (2 Modems)

When using 2 modems, the LED definition shifts as follows:

- 1 System status
- 2 WLAN
- 3 Reception indicator for modem 1
- 4 Reception indicator for modem 2

Item	Status	Function
Power	Permanent blue	Power supply is ready
	Flashing blue	Power supply starting
System	Permanent blue	System has started
	Flashing blue	System starting
	Permanent red	Update running
	Flashing red	System error
WLAN	Permanent blue	WLAN is ready
	Flashing blue	WLAN starting
	Permanent red	WLAN error
Mobile telecommu- nications reception indicator	Permanent blue	4G (LTE) Internet connection established
	Flashing blue	Modem starting
	Permanent red	2G (GPRS) Internet connection established
	Flashing red	Mobile telecommunications connection failed
		No network; incorrect PIN
	Permanent violet	3G (UMTS) Internet connection established

## 4.2 Interfaces to External Systems

### 4.2.1 Electrical Interfaces

#### NOTE



- ▶ The WiCAR® and the antennae may possess different antenna ports (e.g. FAKRA, SMA, ISO or DIN). Use an appropriate adapter if necessary.

- 2 x LTE antenna port  
e.g. FAKRA (m) D-coded  
(optional 2 x MIMO support)
- 1 x GNSS receiver port e.g. FAKRA (m)  
C-coded
- 1 x WLAN antenna port  
e.g. FAKRA (m) N-coded  
(optional 2 x WLAN MIMO)
- 1 x standard SIM card slot (2FF)  
(optional 2 x standard SIM card slot)
- 1 x Ethernet (10/100/1000 Mbit/s)
- 1 x USB 2.0 port, with 5 V 1.5 A
- 1 x 6-pin socket for the power supply, incl.
  - 1 x steady plus (terminal 30)
  - 1 x ground (terminal 31)
  - 1 x switch plus (terminal 15)
  - 2 x CAN low/high bus port
  - 1 x GPIO
- 1 x Micro SD card slot
- 1 x Reset button

## 4.3 Transport and Storage

Transport and store the WiCAR<sup>®</sup> in the original packaging in a dry state and according to ambient conditions; see chapter 2.2.4 Ambient Conditions.

## 4.4 Installation

Before you can connect the WiCAR<sup>®</sup> with your computer, you must install the WiCAR<sup>®</sup> in the vehicle.



### NOTE

- ▶ The installation location of the WiCAR<sup>®</sup> in the interior of the vehicle must be dry and must not be exposed to any direct sunlight.
- ▶ Make sure that there is a 5 cm clearance around the WiCAR<sup>®</sup>.

---

To install the WiCAR<sup>®</sup>, please proceed as follows:

1. Make sure that the antenna is installed properly.
2. Route the power cable for the WiCAR<sup>®</sup> properly.
  - ▶ The WiCAR<sup>®</sup> is activated when there is a positive voltage of at least 12 V on the switch plus. This occurs if the ignition circuit of the vehicle is used as a switching pulse, for example. The WiCAR<sup>®</sup> switches itself off if the switching voltage is switched off.

### Installation

---

3. Make sure that the steady plus and switch plus are fused for at least 2 A at 12 V.
  4. Connect the antenna cable and the power cable to the WiCAR®; see chapter 4.5 Antennae and Cables Connection.
  5. Fix the WiCAR® to the vehicle interior using the optional bolt-on tabs if necessary.
- ✓ The WiCAR® is installed.

#### NOTE

- ▶ The bolt-on tabs are available separately. Should you require them, please contact DesaySV Automotive Europe GmbH.



## 4.5 Antennae and Cables Connection

### 4.5.1 Connecting Antennae

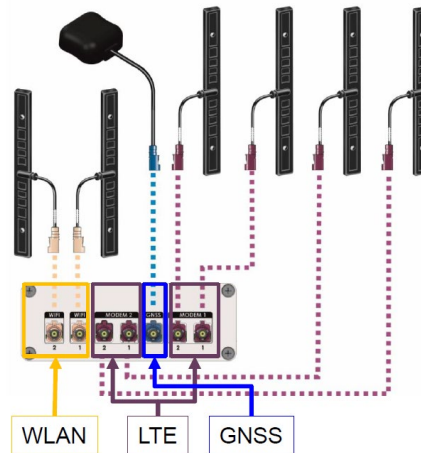


Figure 6 Antenna Connection

Depending on the equipment, the WiCAR<sup>®</sup> provides 2 x WLAN MIMO, 4 x LTE MIMO and 1 x GNSS FAKRA (m) antenna ports.

They are colour-coded as follows:

- WLAN = Beige
- LTE = Violet
- GNSS = Blue

It is important that **both** antenna ports (1 and 2) of the respective antenna input are connected to one antenna, otherwise the MIMO effect is lost.



## 4.5.2 Connecting Cables - Voltage Supply

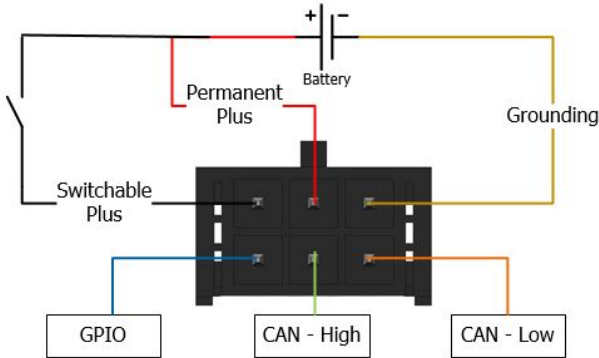


Figure 7 Voltage Supply

For the reliable and fault-free operation of the WiCAR®, the steady plus, switch plus and ground must be connected properly.

The 6-pin connector has connections for steady plus, ground, switch plus, CAN high / low and an I/O contact.

The CAN interface and the GPIO are accessories and, depending on the equipment version, are not active.

The WiCAR® is activated when there is a positive voltage of at least 12 V on the switch plus.

This occurs if the ignition circuit of the vehicle is used as a switching pulse, for example.

The WiCAR® switches itself off if the switching voltage is switched off.



#### NOTE

- ▶ The steady plus and the switch plus **must** be fused for at least 2 A at 12 V.
- ▶ If the voltage supply of the WiCAR® is not directly fused, then fuse the circuit to which the WiCAR® is connected accordingly.
- ▶ The terminal name in the vehicle is usually  
Steady plus: Terminal 30  
Switch plus: Terminal 15  
Ground: Terminal 31.

## 4.6 Commissioning

To put the WiCAR® into operation, please proceed as follows:

1. Make sure that the WiCAR® is installed in the vehicle properly; see chapter 4.4 Installation.
2. Make sure that the antennae and supply cables are properly installed and connected; see chapter 4.5 Antennae and Cables Connection.
3. Plug the SIM card into the SIM card slot of the WiCAR®.
4. Activate the circuit for the permanent voltage supply of the WiCAR®.  
If the ignition circuit of the vehicle is being used as a circuit, for example, the ignition must be switched on.
5. Establish the WLAN connection to the WiCAR®; see chapter 4.6.1 Establishing the WiCAR® Connection.

6. Use your computer's browser to open the URL <http://wicar.wicarbox/> and log in as an administrator; see chapter 4.7 Logging into the WiCAR® Web Interface.
  7. Check the basic settings and adjust them if necessary.
  8. Enter the PIN for the used SIM card; see chapter 4.7.1 PIN Entry / Entries for SIM Card(s).
  9. Check the settings for the mobile network to see if a PIN or APN has to be entered.
- ✓ The WiCAR® is ready for operation.

## 4.6.1 Establishing the WiCAR® Connection

For the first operation, you need to connect your end device (smartphone, tablet or PC) to the WiCAR®.

To establish a WiCAR® connection, proceed as follows:

1. Click on the symbol for the wireless connection of your end device.
  2. Select the WLAN network "**WiCAR-AP**" and click on "Connect".
  3. Enter the password "**wicar-mobile**".
- ✓ Your end device is connected to the WiCAR®.

Alternatively, you can connect a PC with the network cable via the Ethernet port (LAN) of the WiCAR®. You need a password to do this.



### NOTE

- ▶ The network name and the password can be customised; see WiCAR® Manual.

## 4.7 Logging into the WiCAR® Web Interface

In order to be able to use the WiCAR®, you have to log in. Please proceed as follows to do so:

1. Use your browser to access the WiCAR login page <http://wicar.wicarbox/> or <http://192.168.192.1>.

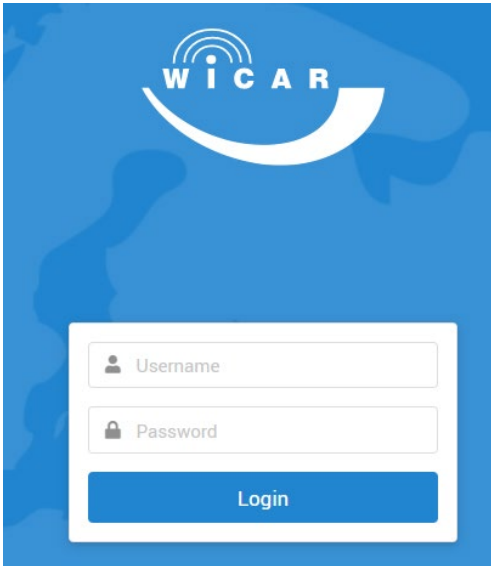


Figure 8 WiCAR® Login Page

2. Log in with your login data. Three user groups exist; see WiCAR® Manual.  
Use the appropriate login data based on the user group.  
*Basic user:*  
Name = **User1**, Password = **Password1**  
*Administrator:*  
Name = **admin**, Password = **admin**
- ✓ Your end device is connected to the WiCAR®.

When accessing the WiCAR® login page on your end device for the first time, confirm the cookie message with "Ok".

**NOTE**

- ▶ We strongly recommend you to change the passwords.

### 4.7.1 PIN Entry / Entries for SIM Card(s)

You have to enter the PIN during first-time commissioning or when changing SIM cards.

Entering the PIN is only necessary once and is saved by the WiCAR®.

**NOTE**

- ▶ Make sure that you use the right PIN for WiCAR® boxes with 2 modems. The SIM card slots are indicated accordingly with SIM 1 / SIM 2.

Enter PIN

🔒 PIN

Allow empty PIN

Cancel

OK

Figure 9 Modem / PIN Entry

## Logging into the WiCAR® Web Interface

---

To enter a PIN, please proceed as follows.

1. Select the "Modem" menu item.
  2. Enter the PIN in the "PIN" field.
  3. Click on the "OK" button.
  - ✦ Checking the PIN.
- 
4. Select the mobile provider and specify the network configuration.

Configure Provider

---

Provider ▼

Roaming

Enter APN manually

*Figure 10 Modem Network Configuration*

5. Click on the "OK" button.
  6. If necessary, repeat steps 2 - 5 for the PIN entry of the 2nd modem.
- ✓ The PIN entry was successful and the modems are connected.

## 5 Errors and Faults

### 5.1 Troubleshooting

Errors	Troubleshooting
WiCAR® not starting	Check that the WiCAR® is correctly connected
	Check that the voltages are present at the tapping points
	Check that the switch voltage is present at the switch plus input
	Check whether a very long activation time is set
WiCAR® has no Internet connection	Check that the activation voltage (terminal 15) is working correctly
	Check the fuse of the supply line of the WiCAR®
	Check the connection of the antennae
	Check the PIN entry of the SIM cards
End devices cannot connect to the WiCAR®	Check the APN settings
	Check that the SIM card is properly activated
	Check that the WLAN password has been correctly entered
	Check that the WiCAR® WLAN is in range
Slow Internet connection	Check the mobile Internet transmission standard
GPRS Internet connection very slow, or non-existent	Change the location of the antennae or move the WiCAR® into an area with a better signal



## 6 Maintenance and Cleaning

### 6.1 Maintenance

The WiCAR® does not have any parts to be serviced by the operating company.

In the event of any faults, contact our service team.

### 6.2 Cleaning

For normal cleaning, wipe the WiCAR® with a soft dry cloth, or one slightly moistened with water. To remove tough dirt, use a cloth which you have soaked in a mild non-abrasive soap solution. Then wipe off carefully with a soft dry cloth.

#### NOTE



- ▶ **Never** use petroleum, thinning agents, alcohol or other solvents. Otherwise, discolouration and / or deformation may occur.
  - ▶ Ensure that **no** fluids get inside the contacts or in the housing of the WiCAR®.
-

## 7 Disposal and Recycling

### 7.1 Environmental Protection



Dispose of the WiCAR® at a collection point for electronic waste to prevent harm to the environment.



## 8 Service Forms

### 8.1 Technical Support

Dear customer, using this questionnaire, you can let us know about your individual configuration requirements for the WiCAR® or options that you would like.

Product name: WiCAR Drive / Travel

Product number: 9\_ \_ \_ \_ . \_ \_

Serial number: \_\_\_\_\_

We require: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

Your contact details:

Project number: \_\_\_\_\_

Name: \_\_\_\_\_

Company: \_\_\_\_\_

Address: \_\_\_\_\_

Tel. / Fax: \_\_\_\_\_

Send this form via fax or  
e-mail to:

DesaySV Automotive Europe GmbH  
In der Buttergrube 5  
99428 Weimar, Germany

Tel.: +49 (0) 3643 4771-100

Fax: +49 (0) 3643 4771-190

www.wicar.de  
info@wicar.de

# 9 Certifications

## 9.1 EU Declaration of Conformity



Antennentechnik Bad Blankenburg GmbH  
 Antennentechnik Bad Blankenburg GmbH  
 Pöhl, Burgstraße 3 - 09428 Weimar, Germany

**EU - Konformitätserklärung**  
**EU - declaration of conformity**



Wir, die  
 Wk,

**Antennentechnik Bad Blankenburg GmbH**  
 In der Buttlerstraße 3 - 7  
 09428 Weimar

Erlären in alleiniger Verantwortung, dass die Produkte  
 Hereby declare in sole responsibility that the products

Produktbezeichnung: **WiCAR® Drive WLANLE Car Router**  
 Type of product: **Model: 8025.01**  
 Produkte siehe Anhang, Products see annex

Hardware Version: 1004761\_14 / WiCar14\_bom\_20171121\_v05

Software Version: 2.00.1230  
 Software version:

mit den einschlägigen Harmonisierungsrechtsvorschriften der Union übereinstimmen;  
 are in conformity with the relevant Union harmonization legislation:

**Richtlinie 2014/53/EU**  
**Directive 2014/53/EU**

EU-Konformitätserklärung **WiCAR® 8025.01** Seite 1 von 3  
 EU-declaration of conformity **WiCAR® 8025.01**



Antennentechnik Bad Blankenburg GmbH  
 Antennentechnik Bad Blankenburg GmbH  
 Pöhl, Burgstraße 3 - 09428 Weimar, Germany

Angewandte Normen und technische Spezifikationen:  
 Applied standards and technical specifications:

Article 3.1e Health and Safety	Article 3.1b EMC	Article 3.2 Radio
EN 62368-1:2014	EN 55024:2010	EN 301 911 V12.5.1
EN 62311:2009	EN 301 488-1 V2.1.1	EN 301 908-1 V11.1.1
EN 60950-1:2006+	EN 301 488-3 V2.1.1	EN 301 908-2 V11.1.1
A11:2009+A1:2010+	EN 301 488-17 V2.2.1	EN 303 413 V1.1.1
A12:2011+A2:2013	EN 301 488-18 V2.1.0	EN 302 308 V2.1.1
	EN 301 489-52 V1.1.0	EN 301 893 V2.1.1

Die Übereinstimmung des bezeichneten Produktes mit den oben genannten Normen wurde bescheinigt durch:  
 The conformity of the designated product with the above standards has been certified by:

Notifizierte Stelle / Notified Body **PKM electronic GmbH**  
 EU-Kennnummer / EU identification No. **2922**  
 Referenz Nummer / Reference number **1711-0029 Update 1912-0002**

Weimar, 21.04.2020  
 Ort, Datum / place, date

Rechtswirksame Unterschrift / Firmenstempel  
 Legally binding signature / company stamp:

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 Managing Director **Antennentechnik Bad Blankenburg GmbH**  
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 Tel: +49 36 231 111 Fax: +49 36 231 111

Diese Erklärung bescheinigt die Übereinstimmung mit den genannten Richtlinien, unterbreitend jedoch keine Zusicherung von Eigenschaften.  
 This declaration certifies the conformity with the designated standards, but does not constitute any undertaking as to quality.  
 The accuracy, completeness, correctness of the supplied product specifications must be assumed by the user.  
 This product is not a CE mark product.

EU-Konformitätserklärung **WiCAR® 8025.01** Seite 2 von 3  
 EU-declaration of conformity **WiCAR® 8025.01**

## 9.2 E1 Certificate



**Kraftfahrt-Bundesamt**  
DE-24932 Flensburg

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Genehmigungsnummer: E1\*10R05/01\*8428\*01, Korr. 01  
Approval number:

10. Datum des Prüfprotokolls:  
Date of test report:  
**02.04.2020**
11. Nummer des Prüfprotokolls:  
Number of test report:  
**19/12-0002**
12. Die Genehmigung E1\*10R05/01\*8428\*01 genehmigt am 27.04.2020 wird **berichtigt**  
Approval E1\*10R05/01\*8428\*01 granted on 27.04.2020 is **corrected**
13. Bemerkungen (gegebenenfalls):  
Remarks (if any):  
**Siehe Anlage**  
**See appendix**
14. Ort: **DE-24932 Flensburg**  
Place:
15. Datum: **12.05.2020**  
Date:
16. Unterschrift: **Im Auftrag**  
Signature:

*Althoff*  
Ulrike Althoff



# 10 Appendix

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