

***Pioneer***

# **DCT-WR204**

Wi-Fi ROUTER

 English

Owner's Manual

# Contents

Thank you for buying this Pioneer product.  
Please read through these instructions so you will know how to operate your model properly. After you have finished reading the instructions, keep this document in a safe place for future reference.

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## Declaration of Conformity with regard to the Radio Equipment Directive 2014/53/EU

Manufacturer:

**Pioneer Corporation**

28-8, Honkomagome 2-chome, Bunkyo-ku,  
Tokyo 113-0021, JAPAN

EU Authorised Representative's & Importer:

**Pioneer Europe NV**

Haven 1087, Keetberglaan 1, B-9120 Melsele, Belgium  
<https://www.pioneer-car.eu/eur/>

[\*] DCT-WR204

English:

Hereby, Pioneer declares that the radio equipment type [\*] is in compliance with Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following internet address:

<https://www.pioneer-car.eu/eur/compliance>

Suomi:

Pioneer vakuuttaa, että radiolaitetyyppi [\*] on direktiivin 2014/53/EU mukainen.

EU-vaatimustenmukaisuusvakuutuksen täysimittainen teksti on saatavilla seuraavassa internetosoitteessa:

<https://www.pioneer-car.eu/eur/compliance>

Nederlands:

Hierbij verklaar ik, Pioneer, dat het type radioapparatuur [\*] conform is met Richtlijn 2014/53/EU.

De volledige tekst van de EU-conformiteitsverklaring kan worden geraadpleegd op het volgende internetadres:

<https://www.pioneer-car.eu/eur/compliance>

Français:

Le soussigné, Pioneer, déclare que l'équipement radioélectrique du type [\*] est conforme à la directive 2014/53/UE.

Le texte complet de la déclaration UE de conformité est disponible à l'adresse internet suivante:

<https://www.pioneer-car.eu/eur/compliance>

Svenska:

Härmed försäkrar Pioneer att denna typ av radioutrustning [\*] överensstämmer med direktiv 2014/53/EU.

Den fullständiga texten till EU-försäkran om överensstämmelse finns på följande webbadress:

<https://www.pioneer-car.eu/eur/compliance>

Dansk:

Hermed erklærer Pioneer, at radioudstyrstypen [\*] er i overensstemmelse med direktiv 2014/53/EU.

EU-overensstemmelseserklæringens fulde tekst kan findes på følgende internetadresse:

<https://www.pioneer-car.eu/eur/compliance>

Deutsch:

Hiermit erkläre ich, Pioneer, dass der Funkanlagentyp [Bezeichnung] der Richtlinie 2014/53/EU entspricht.

Der vollständige Text der EU-Konformitätserklärung ist unter der folgenden Internetadresse verfügbar:

<https://www.pioneer-car.eu/eur/compliance>

Ελληνικά:

Με την παρούσα ο/η Pioneer, δηλώνει ότι ο ραδιοεξοπλισμός [\*] πληροί την οδηγία 2014/53/ΕΕ.

Το πλήρες κείμενο της δήλωσης συμμόρφωσης ΕΕ διατίθεται στην ακόλουθη ιστοσελίδα στο διαδίκτυο:

<https://www.pioneer-car.eu/eur/compliance>

Italiano:

Il fabbricante, Pioneer, dichiara che il tipo di apparecchiatura radio [\*] è conforme alla direttiva 2014/53/UE.

Il testo completo della dichiarazione di conformità UE è disponibile al seguente indirizzo Internet:

<https://www.pioneer-car.eu/eur/compliance>

Español:

Por la presente, Pioneer declara que el tipo de equipo radioeléctrico [\*] es conforme con la Directiva 2014/53/UE.

El texto completo de la declaración UE de conformidad está disponible en la dirección Internet siguiente:

<https://www.pioneer-car.eu/eur/compliance>

Português:

O(a) abaixo assinado(a) Pioneer declara que o presente tipo de equipamento de rádio [\*] está em conformidade com a Diretiva 2014/53/UE.

O texto integral da declaração de conformidade está disponível no seguinte endereço de Internet:

<https://www.pioneer-car.eu/eur/compliance>

Čeština:

Tímto Pioneer prohlašuje, že typ rádiového zařízení [\*] je v souladu se směrnicí 2014/53/EU.

Úplné znění EU prohlášení o shodě je k dispozici na této internetové adrese:

<https://www.pioneer-car.eu/eur/compliance>

Eesti:

Käesolevaga deklareerib Pioneer, et käesolev radioseadme tüüp [\*] vastab direktiivi 2014/53/EL nõuetele.

ELi vastavusdeklaratsiooni täielik tekst on kättesaadav järgmisel internetiaadressil:

<https://www.pioneer-car.eu/eur/compliance>

**Magyar:**

Pioneer igazolja, hogy a [\*] típusú rádióberendezés megfelel a 2014/53/EU irányelvnek.  
Az EU-megfelelőségi nyilatkozat teljes szövege elérhető a következő internetes címen:  
<https://www.pioneer-car.eu/eur/compliance>

**Latviešu valoda:**

Ar šo Pioneer deklarē, ka radioiekārta [\*] atbilst Direktīvai 2014/53/ES.  
Pilns ES atbilstības deklarācijas teksts ir pieejams šādā interneta vietnē:  
<https://www.pioneer-car.eu/eur/compliance>

**Lietuvių kalba:**

Aš, Pioneer, patvirtinu, kad radijo įrenginių tipas [\*] atitinka Direktyvą 2014/53/ES.  
Visas ES atitikties deklaracijos tekstas prieinamas šiuo interneto adresu:  
<https://www.pioneer-car.eu/eur/compliance>

**Malti:**

B'dan, Pioneer, niddikjara li dan it-tip ta' tagħmir tar-radju [\*] huwa konformi mad-Direttiva 2014/53/UE.  
It-test kollu tad-dikjarazzjoni ta' konformità tal-UE huwa disponibbli f'dan l-indirizz tal-Internet li ġej:  
<https://www.pioneer-car.eu/eur/compliance>

**Slovenčina**

Pioneer týmto vyhlasuje, že rádiové zariadenie typu [\*] je v súlade so smernicou 2014/53/EÚ.  
Uplné EÚ vyhlásenie o zhode je k dispozícii na tejto internetovej adrese:  
<https://www.pioneer-car.eu/eur/compliance>

**Slovenščina:**

Pioneer potrjuje, da je tip radijske opreme [\*] skladen z Direktivo 2014/53/EU.  
Celotno besedilo izjave EU o skladnosti je na voljo na naslednjem spletnem naslovu:  
<https://www.pioneer-car.eu/eur/compliance>

**Română:**

Prin prezenta, Pioneer declară că tipul de echipamente radio [\*] este în conformitate cu Directiva 2014/53/UE.  
Textul integral al declarației UE de conformitate este disponibil la următoarea adresă internet:  
<https://www.pioneer-car.eu/eur/compliance>

**Български:**

С настоящото Pioneer декларира, че този тип радиосъоръжение [\*] е в съответствие с Директива 2014/53/ЕС.  
Цялостният текст на ЕС декларацията за съответствие може да се намери на следния интернет адрес:  
<https://www.pioneer-car.eu/eur/compliance>

**Polski:**

Pioneer niniejszym oświadcza, że typ urządzenia radiowego [\*] jest zgodny z dyrektywą 2014/53/UE.  
Pełny tekst deklaracji zgodności UE jest dostępny pod następującym adresem internetowym:  
<https://www.pioneer-car.eu/eur/compliance>

**Norsk:**

Herved Pioneer erklærer at radioutstyr type [\*] er i samsvar med direktiv 2014/53 / EU.  
Den fullstendige teksten i EU-samsvarserklæringen er tilgjengelig på følgende internetadresse :  
<https://www.pioneer-car.eu/eur/compliance>

**Íslenska:**

Hér með Pioneer lýsir yfir að tegund þráðlausan búnað [\*] er í samræmi við tilskipun 2014/53/ESB.  
The fullur texti af ESB-samræmisyfirlýsingu er í boði á eftirfarandi veffangi:  
<https://www.pioneer-car.eu/eur/compliance>

**Hrvatski:**

Pioneer ovime izjavljuje da je radijska oprema tipa [\*] u skladu s Direktivom 2014/53/EU.  
Cjeloviti tekst EU izjave o sukladnosti dostupan je na sljedećoj internetskoj adresi:  
<https://www.pioneer-car.eu/eur/compliance>

**Türk:**

Burada. Pioneer radyo ekipmanı turunun [\*] 2014/53/EU direktiflerine uyumlu olduğunu beyan eder.  
Avrupa uyumluluk beyanının tam metni belirtilen internet sitesinde mevcuttur :  
<https://www.pioneer-car.eu/eur/compliance>

## **Declaration of Conformity with regard to Radio Equipment Regulations 2017**

Manufacturer:

**Pioneer Corporation**

28-8, Honkomagome 2-chome, Bunkyo-ku,  
Tokyo 113-0021, JAPAN

UK Authorised Representative's & Importer:

**Pioneer Europe NV**

Salamanca, Wellington Street, Slough, SL1 1YP, UK  
<http://www.pioneer-car.eu>

[\*] DCT-WR204

Hereby, Pioneer declares that the radio equipment type [\*] is in compliance with UK SI 2017 No. 1206.

The full text of the UK declaration of conformity is available at the following internet address:

<http://www.pioneer-car.eu/compliance>

English

# Precaution

Certain country and state laws may prohibit or restrict the placement and use of this product in your vehicle. Please comply with all applicable laws and regulations regarding the use, installation and operation of this product. It is the user's responsibility in compliance with all applicable laws and ordinance.

## Information for users on collection and disposal of old equipment and used batteries

(Symbol for equipment)



(Symbol examples for batteries)



Pb

These symbols on the products, packaging, and/or

**accompanying documents mean that used electrical and electronic products and batteries should not be mixed with general household waste.**

**For proper treatment, recovery and recycling of old products and used batteries, please take them to applicable collection points in accordance with your national legislation.**

By disposing of these products and batteries correctly, you will help to save valuable resources and prevent any potential negative effects on human health and the environment which could otherwise arise from inappropriate waste handling.

For more information about collection and recycling of old products and batteries, please contact your local municipality, your waste disposal service or the point of sale where you purchased the items

**These symbols are only valid in the European Union.**

**For countries outside the European Union:**

If you wish to discard these items, please contact your local authorities or dealer and ask for the correct method of disposal.

## ⚠ CAUTION

- The graphical symbol  placed on the product means direct current.

## Safety Precautions

Always observe the precautions described here to prevent harm to yourself and others and to prevent damage to property before it happens.

### Important safeguards

#### **WARNING**

- Do not install this product in your vehicle if its location or use would obstruct the driver's clear view of the road or the operation of any vehicle airbag. It is also the driver's responsibility to know and comply with the laws, rules, and regulations of the driving location, including, for example, passenger privacy rights, and not to use the device in any location where its installation or use is prohibited.
- It is the user's responsibility in compliance with all applicable laws and ordinance.
- Pioneer is not liable for any damage, due to installation other than described, or use of the product. Pioneer does take responsibility whatsoever for any damage or losses incurred as a result.
- Any obstruction of or other interference with the airbag, either deployed or non-deployed must be avoided and, accordingly, professional installation is required.
- We recommend that this product be set up and installed by a technician who has special training and experience in mobile electronics.

### Important safety information

#### **WARNING**

- Do not allow this product to come into contact with liquids. Electrical shock could result. Also, damage to the product, smoke, and overheating could result from contact with liquids.
- If liquid or foreign matter should get inside this product, park your vehicle in a safe place, turn the ignition switch off (ACC OFF) and consult your dealer or the nearest authorised Pioneer Service Station. Do not use this product in this condition because doing so may result in a fire, electric shock, or other failure.
- If you notice smoke, a strange noise or odour from this product, or any other abnormal signs, turn off the power immediately and consult your dealer or the nearest authorised Pioneer Service Station. Using this product in this condition may result in permanent damage to the system.
- Do not disassemble or modify this product, as there are high-voltage components inside which may cause an electric shock. Be sure to consult your dealer or the nearest authorised Pioneer Service Station for internal inspection, adjustments or repairs.

## To ensure safe driving

### **WARNING**

- Do not control or operate this product while driving. Park your vehicle in a secure way before using this product.

## Precautions before connecting the system

### **CAUTION**

- Firmly install this product. If this product is not firmly installed, it may fall off while driving and cause an accident. Periodically inspect this product.
- Secure all wiring with cable clamps or electrical tape. Do not allow any bare wiring to remain exposed.
- Only install this product in well vented places or area.
- Make sure that the voltage and rated current of the power source meet the requirements of the unit. Do not connect the unit to an unsuitable power source.

## To prevent damage

### **WARNING**

- When replacing the fuse, be sure to only use a fuse of the rating prescribed on this product.



## Precautions before installation

### CAUTION


Never install this product in places where, or in a manner that:

- To ensure proper installation, be sure to use the supplied parts in the manner specified. If any parts are not supplied with this product, use compatible parts in the manner specified after you have the parts' compatibility checked by your dealer. If parts other than supplied or compatible ones are used, they may damage internal parts of this product or they may work loose and the product may become detached.
- Do not install this product where it may impair the performance of any of the vehicle's operating systems or safety features, including airbags or hazard lamp buttons.
- Never install this product in front of or next to the place in the dashboard, door, or pillar from which one of your vehicle's airbags would deploy. Please refer to your vehicle's owner's manual for reference to the deployment area of the frontal airbags.
- Never install this product in front of or next to the place in the dashboard, door, or pillar from which one of your vehicle's airbags would deploy. Please refer to your vehicle's owner's manual for reference to the deployment area of the frontal airbags.
- Consult with your nearest dealer if installation requires drilling holes or other modifications of the vehicle.
- Do not install this product in places subject to high temperatures or humidity, such as:
  - Places close to a heater, vent or air conditioner.
  - Closed environments with poor heat evacuation.
  - Places that may be exposed to rain, such as close to the door or on the vehicle's floor.

# Disclaimer

- In no event shall Pioneer be liable for any indirect, incidental or consequential damages from the sale or use of the product.
- This disclaimer applies both during and after terms of the Warranty.
- Pioneer will not be held liable for any costs incurred as a result of using mobile data services. Data usage can be expensive. The "Statistics" information for Data use should be used as a guide only, it is not always completely accurate. For accurate data usage information, you should contact your service provider.
- For your own safety and to prevent unnecessary damage to your unit, please read and observe the following safety instructions:
- This product is intended for private, non-commercial use.
- You alone are responsible for how you use your device and for all consequences of its use. Use of the appliance is subject to safety measures to protect users and their environment.
- The product must be installed in accordance with the manufacturer's instructions.
- Only use approved accessories! Do not operate the product with incompatible products or accessories.
- Always treat the product and its accessories with care and store it in a clean and dust-free place.
- Arrange power, antenna and Ethernet cables so that no one could step on them or place other objects on them. Avoid putting mechanical stress on the connectors.
- Do not disassemble the product into its individual parts. The unit does not contain any user-serviceable components. Improper assembly may result in electric shock or malfunction.
- Do not make any modifications to the product, as this will invalidate any warranty claims.
- Never open the unit! Any attempt at repair by unqualified persons may be dangerous and invalidate the warranty claims!
- If your device or its accessories have been immersed in water, punctured or subjected to a severe fall, do not use it until it has been checked by an authorised service centre.
- This device, like any wireless device, operates on radio signals that cannot guarantee connectivity under all conditions. Therefore, never rely solely on a wireless device for emergency communication or otherwise use the device in situations where the interruption of data connectivity could result in death, personal injury, property damage, loss of data or other losses.

# How to read this Manual

Notation	Meaning
	These symbols are used to draw your attention to items you should be aware of when using this product and items you should be aware of to maintain its performance.
<b>Note /Notes</b>	Notes provide useful tips and extra information about product features.
→ " ○○○○ "	Quotation marks are used to indicate references and settings.

- The illustrations and example screens used in this manual may differ from the actual product.
- The actual screens of the product may be changed without prior notification for the purpose of improvements to product performance and features.

# Usage Precautions

## **Precautions When Handling this product**

- Do not use the product in a closed environment or in places with poor heat dissipation. Furthermore, do not operate the product in locations with limited ventilation.
- Protect the product from moisture, water, rain, snow or spray and only use the product in dry environments.
- Never expose the product to high temperatures or extreme cold. Observe the operating temperature specified in the technical data.
- Do not cover the product to allow heat to escape
- Do not expose the product or its accessories to open flames.
- Do not intentionally drop the product or subject it to extreme shocks.
- This product, like all electrical products, does not belong in children's hands!
- This product is not intended to be used by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and / or knowledge. Unless they are supervised by a person responsible for their safety or have received instructions from you on how to use the appliance.

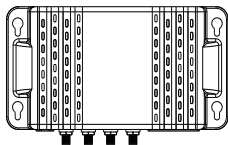
English

## Precaution - Vehicle Battery drainage

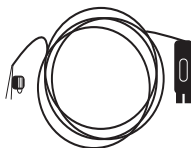
This product is intended to be powered permanently , even if the vehicle ACC is OFF. To prevent the product from draining the vehicle battery, pls turn the unit OFF when the vehicle battery is not being regularly charged.

To protect itself from overheating, the DCT-WR204 may shut down automatically. To recover, pls Power ON>OFF>ON .

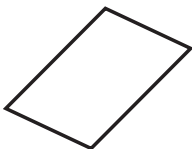
# Check the Accessories



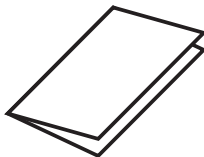
Main Unit × 1



Power Cable (5.0m) × 1



Warranty × 1



Quick Start Guide × 1

# Before Installing the Product

## **WARNING**

- When installing the product on vehicles installed with an air bag, never install on the cover of the air bag and at locations that might obstruct the deployment of the air bag. Doing so might prevent the air bag from being deployed normally, cause the product to fly out due to air bag deployment, and cause accident and injury.

## **CAUTION**

- First check with the vehicle manufacturer for precautions related to the installation work when installing the product in a vehicle equipped with airbags. Otherwise there is a risk of airbag malfunction.
- Always use the included parts as specified. There is a risk of product failure if other parts are used.
- Install this product in a location where it will not hinder vehicle equipment and the ability to drive the vehicle.

## Precautions before connecting the system

- Firmly install this product. If this product is not firmly installed, it may fall off while driving and cause an accident. Periodically inspect this product.
- Secure all wiring with cable clamps or electrical tape. Do not allow any bare wiring to remain exposed.
- Only install this product in well vented places or area.
- Make sure that the voltage and rated current of the power source meet the requirements of the unit. Do not connect the unit to an unsuitable power source
- Choose a working location free from dust and debris in the air.

### Before Installing and Securing the Product

Never install this product in places where, or in a manner that:

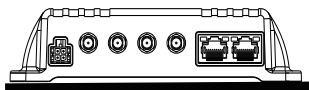
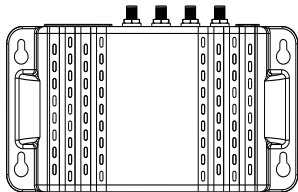
- To ensure proper installation, be sure to use the supplied parts in the manner specified. If any parts are not supplied with this product, use compatible parts in the manner specified after you have the parts' compatibility checked by your dealer. If parts other than supplied or compatible ones are used, they may damage internal parts of this product or they may work loose and the product may become detached.
- Do not install this product where it may impair the performance of any of the vehicle's operating systems or safety features, including airbags or hazard lamp buttons.
- Never install this product in front of or next to the place in the dashboard, door, or pillar from which one of your vehicle's airbags would deploy. Please refer to your vehicle's owner's manual for reference to the deployment area of the frontal airbags.
- Do not install this product in places subject to high temperatures or humidity, such as:
  - Places close to a heater, vent or air conditioner.
  - Closed environments with poor heat evacuation
  - Places that may be exposed to water, such as close to the door or via intrusion from the opening made for the antenna.

# Installation

## Recommended Installation Position

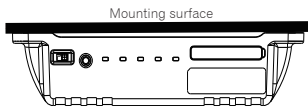
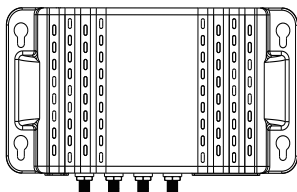
- The Product can be mounted horizontally on a flat surface or vertically up to a 90 degree angle with the antenna connectors topwards.
- As SIM cards may require changing depending on destination, we recommend to mount the product to allow easy access to the SIM slots and LED for the user

OK



Mounting surface

Not OK



Mounting surface

## Connecting the antenna

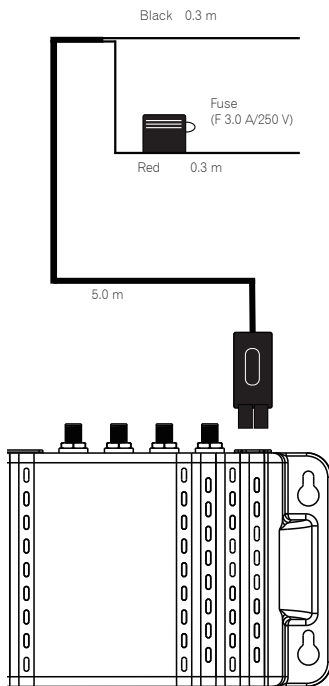
- The SH-IN2784 MIMO antenna is provided with its own installation manual.
- The SH-IN2784 antenna is connected to the Router via 4 SMA connectors. These SMA connectors have a specific polarity and cannot be connected to the wrong port.
- Tighten the SMA's with a torque wrench set anywhere between 0.3 to 0.6 Nm.



# Connecting the Power Cable

Be sure to disconnect the  $\ominus$  terminal of the vehicle's battery before connecting the power cable.

English



## Ground (Black)

Securely connect to the metal part of the vehicle body. To prevent noise, connect as close to the navigation unit as possible.

## + Battery power supply (Red)

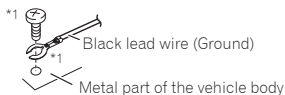
Always connect to the power circuit supplied with power from the battery, regardless of whether the vehicle engine switch is ON or OFF. Make sure to connect to a direct battery feed which does not shut down after locking the car or camper for a certain period.

### Note:

Connect the red lead wire to the terminal after wiring through the vehicle's fuse unit.

## ⚠ Connection Precautions

- To prevent fuming and damage to the product, be sure to first securely connect the black lead wire (Ground) of this product to the metal part of the vehicle body. Connect separate black lead wires (Ground) for products with a high current consumption such as a power amplifier. When setting up connections all at once, there is a risk of fuming or damage to the product when screws loosen or come off completely.



**\*1 Screw and terminal not supplied with this unit**

## ⚠ Caution

This product is not compatible with cigar chargers. Only use the cable supplied by Pioneer in the box.

## ⚠ Caution

When replacing the fuse, make sure to only use a fuse of the rating prescribed for this product. Do not replace the fuse with one of a higher rating, this may cause fire and/or smoke. In case the fuse keeps blowing after replacement, contact a Pioneer dealer close to you for further inspection.

## ⚠ Caution

Do not shorten or lengthen any leads. If you do, the protection circuit (fuse holder, fuse resistor or filter, etc.) may fail to work properly.

## ⚠ Caution

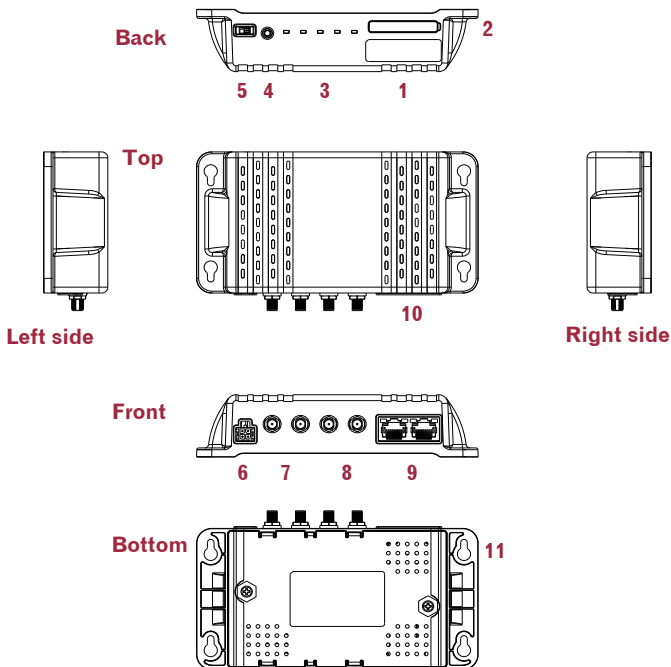
Make sure that the cables and wires will not interfere with or become caught in any of the vehicle's moving parts, especially the steering wheel, gearstick, handbrake, sliding seat tracks, doors or any of the vehicle's controls.

## Caution

To prevent cables from being wrapped around a child's neck, cables shall be placed where infants or toddlers cannot easily reach, e.g., hidden inside a lining or firmly anchored every 20cm with Clips.

# Product Overview

## 1. Part Names



- |  |   |
|--|---|
| <p>① <b>Main Label</b><br/>Includes Username and Password</p> <p>② <b>SIM Card Lid</b><br/>Covers 2 SIM slots compatible with nano SIM</p> <p>③ <b>Status LEDs</b><br/>Verify device status and functionality</p> <p>④ <b>Reset Button</b><br/>Push once to reset the unit</p> <p>⑤ <b>On/Off Power Button</b><br/>Slide to turn the</p> | <p>⑥ <b>Main Power Connector</b></p> <p>⑦ <b>LTE™ Antenna Connectors</b></p> <p>⑧ <b>Wi-Fi Antenna Connectors</b></p> <p>⑨ <b>LAN ports</b><br/>With status LED. Port 1 is for WAN / LAN</p> <p>⑩ <b>Cooling Vents</b><br/>Do not cover the cooling vents</p> <p>⑪ <b>Mounting Points</b><br/>Four mounting points, one on each corner of the chassis</p> |
|--|---|

# Status

## LED Status Translation

English

LED	Color	Action	Function Description	Controlled by
<b>Power</b>	Red		Reserved for future using	Router
	Green	On	DC power existing	MCU & Router
	Blue		Reserved for future use	Router
	White	RGB all Blinking	SW Update	Router
<b>Wi-Fi (Own Network)</b>	Green	On	Wi-Fi connected with a Wi-Fi Client	Router
	Off	Off	Wi-Fi not connected	Router
<b>Public Wi-Fi (WWAN)</b>	Green	On	Public Wi-Fi WAN connected	Router
	Off	Off	No Public Wi-Fi connection	Router
<b>SIM 1</b>	Red	Blinking	SIM error/not existing	Router
	Red	Signal weak	RSRP:-120dBm~-111dBm	Router
	Green	Signal good	RSRP:-110~-101dBm	Router
	Blue	Signal Excellent	RSRP:-100dBm~-85dBm	Router
<b>SIM 2</b>	Red	Blinking	SIM error/not existing	Router
	Red	Signal weak	RSRP:-120dBm~-111dBm	Router
	Green	Signal good	RSRP:-110~-101dBm	Router
	Blue	Signal Excellent	RSRP:-100dBm~-85dBm	Router
<b>Note</b>	All LED are blinking: while SW is updated			

- 2.1 PWR: Illuminates static green when power is 'ON'. Blinking white indicates the unit performs a firmware update, blinking green when the unit is powered but in sleep mode. To force the unit out of sleep mode: switch ON>OFF>ON.
- Wi-Fi: Static green in case at least 1 device is connected with the Wi-Fi network from the router
- WWAN: Static green when connected to an external hotspot and does not consume your mobile data plan
- SIM 1 and SIM 2: Static green = good signal, static blue is for excellent signal strength, static red is for weak signal strength and blinking Red means there is a SIM error (please check whether the SIM card is correctly installed and the SIM slot is clean) To maximize the cellular performance try changing the location of your vehicle to achieve the best signal conditions.

# Using This Product

## Initial Step

This is your first experience with this router, as such we try to get you connected.

To use a 4G cellular internet connection you must have a subscription with a telecommunication provider. For most subscriptions, there is a maximum data limit per month. It is important that this cellular data amount is enough to support the functions that you wish to use on the Router.

When selecting a Telecom provider, you should consider how much data you will require, how often you will be using the system and whether you need connectivity while abroad ( Roaming).

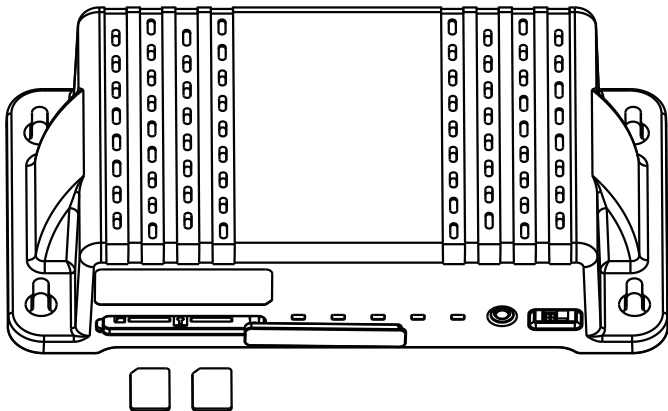
You may request your Telecom provider to de-activate the PIN code of your Data SIM. This will simplify the setup process.

## SIM Installation

Check out the product for the SIM card slot, a lever (2) , open it with your nail and turn the lid away from the openings. Insert a Nano-SIM in one of the Slots preferably SIM1 push the nano-SIM with your nail completely to the back until it 'clicks', the auto return is when you push it a second time for ejecting the nano-SIM. Put the SIM-slot cover back in place.

### **Caution**

Do not insert or remove a SIM card when the router is powered on. Turn off the Router prior to inserting, removing or replacing a SIM card.



## Power Up

Check whether power cable and antennas are connected, then power up your Router for the magic to start... LEDs will turn on and off in a self-test routine, please wait till the power LED is ON and the LED indicating the SIM is fixed ON, don't mind the color for now.

Check out the product, there is a small QR code above the SIM card slot (1), this little sticker provides you the SSID of your product, 'the router's network name'. Please check on your personal phone/tablet or laptop for a Wi-Fi network with the exact same name or scan the QR code with your personal smart device camera.

Once connecting to the Router Network name, the software will ask for a password, check on the sticker above the SIM card slot for this password

By completing the SSID and password, your laptop, tablet or smartphone should be connected to the device and the green light for Wi-Fi connectivity is illuminating green next to the power button.

You are successfully connected with your personal electronic device on the Router.

## Configuration

Next step is to get the full connectivity of your router.

Scan the QR code above the SIM card slot. If that is not possible, check the info next to the QR code. The SSID is the name of your Router Wi-Fi network and the password is allowing your Laptop/ Tablet/ Smartphone to connect to this Wi-Fi network. On the label (1), you will find the admin (Name: admin) of your device, and the administrator password .

Open a web browser on your smartphone (Safari, Google, Firefox,...) and type 192.168.0.1.

### Note

Some web browsers allow the creation of a shortcut to the 192.168.0.1 url.

Such shortcut looks like an App button on your smartphone and will simplify your next login .

The Login landing page will be displayed that asks you the administrator user name... and password you just checked on the Router label.

Once completed the Router will ask you to create a new personalized password, this is for security reasons. This password needs to contain at least one: Capital letter, small letter, a number and a special character. Now that you have your personalized password, write it down and store it in a safe place, this is your new password unless you perform a reset, then the credentials on the label are active again.

## Login

Login with your personalized password under the admin account. With the correct information in place, a new landing page will open.



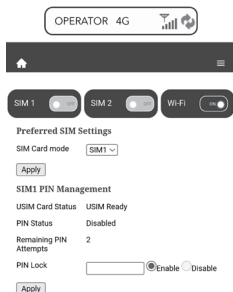
If your inserted SIM card is immediately recognized, your Router will be connected to a mobile network with maximum available strength.

## Mobile network connection

If your router is not immediately connected to a mobile carrier, maybe the SIM card is PIN locked, please unlock the SIM card by selecting SIM settings (see next step) The SIM settings view will open.

### Note

You can always return to the main menu by selecting top bar left side dashboard.



If your active SIM is PIN protected, the PIN Lock button "Disable" will be blue. Put your PIN code in the text box and push the "Apply" soft key just underneath. This will unlock your SIM card PIN until you "Enable" the PIN lock again. Once the Router has made connection to the network it will show a blue or green SIM LED

## APN

In case that the router is not connected to the network, check with your mobile network provider for the APN. In the same menu under network and SIM settings left upper area you see the APN settings. If you click that area you will see a new view opening for APN settings.

OPERATOR 4G

HOME MENU

SIM 1 ☐ OFF SIM 2 ☐ OFF Wi-Fi ☒ ON

**SIM1 APN Settings**

Host Name	Default ▾	Add New
Profile Name	Default	
APN		
Authentication	None ▾	
User Name		
Password		

Apply

By default the APN settings are set to automatically detect and follow the cellular network provider. In some cases, you will need to set the APN manually.

Select the APN to Manual, fill in the name of the APN for your provider and then the server where the SIM should connect to. Press save, and wait for the Router to reboot from settings changes in the core module to push the provider server. Afterwards this connection can be saved as default, manual setting as default for this SIM

### Note

If you exchange the SIM for another provider, don't forget to set the APN setting back to auto as default.

In case the two steps before are not offering a solution, please set the APN back to Automatic, unlock the SIM PIN and check the WWAN function while you contact your the customer support of your mobile network provider to see whether the SIM is visible on their network.



On the landing page there is also soft key for WWAN hotspot (indicating an antenna). This feature will look for Wi-Fi networks close to you and will give the following view:



Enable the Wi-Fi WAN Setting status, apply your changes and wait for a reboot of the system. Once done, tap the scan key to scan for Wi-Fi networks close to you, select the network to which you would like to connect and use the Password to finalise the connection. The Router will remember the last selected network and password when you switch the router OFF.

## Note

Support of captive portal: If the Wi-Fi network is a public network with specific landing page where you need to accept the terms and conditions for using the network. You will automatically be routed to this web view to accept and the Ts and Cs prior to being connected.

## Router Management

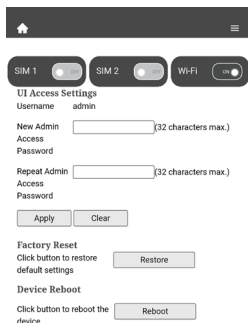
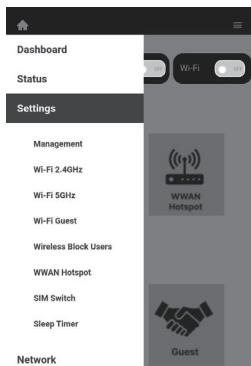
Within this view it is possible to reboot the system on the bottom with the "Reboot" soft key. This will take a few minutes and reboots the router but still keep the original devices connected and the credentials to log in.

The other soft key is "Factory Reset". This soft key "Restore" turns everything back to factory settings, all devices will be disconnected, the SSID (router network name) will be set back to the original one as you can see on the label, on top of the SIM cover. You can use the QR code printed on the label to start your settings from default and go back to the initial setup.

Further in this view: On top, you can change the Admin password. Select it wisely and remember to write it down in this booklet or on a paper to store it safely.

### Note

Upon network name and/or password changes, devices that were connected to the old network name (SSID) / password will no longer be connected to the new SSID and need to be paired once again with the new name and/or password.



## Wi-Fi 2.4GHz and Wi-Fi 5.0GHz

This is the Wi-Fi network the router emits for the classic devices that can connect over Wi-Fi technology.

Frequency (Channel) Auto (Channel 11)

Broadcast SSID ☒ Enabled ☐ Disabled

Bandwidth ☐ 20 MHz ☒ 20/40 MHz

Wi-Fi 2.4GHz Security


Security Mode WPA2-PSK

WPA Algorithms ☐ TKIP ☒ AES ☐ TKIP/AES

Password 8FB64E4E

Key Renewal Interval 3600 Seconds (0 ~ 4194302)

Wi-Fi 2.4GHz QR Code



Apply Clear

The 'Wi-Fi Status' setting offers the possibility to disable the network to broadcast. If you are connected to this network (check SSID in your Wi-Fi settings of your device) you will be disconnected from the router immediately and need to connect with the other network (name and or password) once you push the 'apply' soft key at the bottom.

The 'Wi-Fi Standard' is the setting of technology that is behind the broadcast, for mainly older devices, it can be of benefit to use a specific network broadcasting standard, for this check the connecting device user's manual and make your selection in the standards. Once applied it might be necessary for all connected devices to reconnect to the SSID.

Free modifiable 'network name (SSID)', allows you to personalize the broadcasted network name. If you are connected to this network (check SSID in your Wi-Fi settings of your device) you will be disconnected from the router immediately and need to connect with the other network (name and or password) once you push the 'apply' soft key at the bottom and the changes you made are pushed in the router settings.

For the broadcast of your Wi-Fi signal, the router is set to select a 'frequency channel' automatically with the frequency bands. We suggest to keep this setting for your convenience. Though if a certain device needs the broadcast to be specifically within a channel, please select the specific channel to what you like your devices connect towards, note that this will fix the frequency broadcast to a certain frequency range and if too many other devices are in this range the signal may be weakened or disturbed.

The first tick box makes the option available to 'broadcast the SSID' of the network, or hide it. This means you still broadcast the network, devices can be connected and remain connected but it is a hidden network for other users, unless you know the name and password.

'Channel bandWidth' tick box is set as standard for the highest flexibility, if you require a specific range, it is possible to narrow the bandwidth and have a bit of a different reception footprint, adapted to a specific device or environment.

For security measures, the first element that is to be extended for next updates, Security mode is possible to set WPA2-PSK as most secure option from factory, stay tuned for more after updates are coming.

WPA algorithms TKIP and AES are available.

The password is fully possible to personalize, be smart and choose some secure password, we recommend to write it down somewhere safe.

The Key renewal interval is set to 3600 sec (1 hour), this is possible to modify.

A QR code is made available per network. By scanning this QR code with a mobile phone or tablet, the device is automatically connected to the network, at least after confirming the connection to the network with SSID as previously indicated.

## Wi-Fi Guest (Guest Mode)

Under the menu setting 'Wi-Fi Guest' you will find 2 frequencies for guest networks. These networks can be shared with their own network name and private password. These networks also generate a QR code to share them easily with people closeby. You can control when it is broadcasted or when it is stopped. When Activating "Wi-Fi Guest", the Wi-Fi function of your router will be disconnected shortly, and you may be disconnected from the WebUI .

The last submenu in the settings menu for basic settings is a repetition of the smart link from the dashboard page the settings of WWAN, your Wi-Fi hotspot connectivity settings, to connect and repeat a local Wi-Fi network.

SIM 1 ☐ SIM 2 ☐ Wi-Fi ☒

**Wi-Fi Guest 2.4GHz Settings**  
 Wi-Fi Status: **Enabled**  
 Network Name (SSID):   
 Password:  ☐ Show  
 Limit Speed: **Not Limit**  
 Wi-Fi Guest 2.4GHz QR Code

## Sleep Timer

With the sleep timer you can program the on/off time of the router. This could be during the night time or when you are out during the day time to save battery life of your vehicle.

SIM 1 ☐ SIM 2 ☐ Wi-Fi ☒

**Sleep Timer Settings**  
 Status: **Enabled**  
 Time:  :  :   
 Repeat: ☐ Everyday ☐ Mon ☐ Tue ☐ Wed ☐ Thu ☐ Fri ☐ Sat ☐ Sun

# Professional Settings

The DCT-WR204 allows very advanced setting to be made. If you are not sure what the , pls ask an IT expert to support you.

Do not attempt to change the "Professional Settings " by yourself if you are not sure of the meaning the terms .

Some of these settings may require additional settings at the network provider side that are not included with your SIM package.

If you change the settings for these functions , and the router no longer makes a connection, you can restore the router to the factory default in the "Management Setting" menu.

## Dark Mode

With this feature, you can turn OFF all LED's on the product if you think they are disturbing. When the setting is OFF, the LED status function will not be available on the product.

## MAC Filtering

With this feature, only the packet whose destination MAC address is the MAC address of the router interface can be forwarded.

SIM 1 SIM 2 Wi-Fi

**MAC Filtering Settings**

MAC Filtering Enabled

Default policy - the device that don't match any rule would be: Allow

**MAC Address Rule Table**

ID	MAC Address	Action
<span>Delete</span> <span>Add New</span> (Note: maximum rule count is 10)		

**Mac Filtering Schedule**

Schedule Disabled

Apply

## IP/Port Filtering

IP filtering lets you control what IP traffic will be allowed into and out of your network. Basically, it protects your network by filtering packets according to the rules that you define.

SIM 1 SIM 2 Wi-Fi

**IP/Port Filtering Settings**

IP/Port Filtering Enabled

Default policy - the device that don't match any rule would be: Dropped

Apply



**Time Rule table**

ID	Dest IP Address	Source IP Address	Protocol	Dest Port Range	Source Port Range	Action
Others would be dropped						
<span>Apply</span> <span>Delete</span> <span>Add New</span> (Note: maximum rule count is 10)						

## Professional Settings

### Content Filtering

Enable the Content filter to Black list websites. Input the URL's of the websites you wish to Black list.

SIM 1 ☐

SIM 2 ☐

Wi-Fi ☒

**Content Filtering Rule Table**

ID

URL Address or Keyword

Select

Delete

Add New

Note: maximum rule count is 8

**Content Filtering Schedule**



Schedule

Disabled

Apply

### Port Forwarding

Port forwarding allows you to communicate with devices behind a router (or firewall) by instructing the router to forward traffic on certain ports to specific IP address on its LAN.

SIM 1 ☐

SIM 2 ☐

Wi-Fi ☒

**Port Forwarding Rule Table**

ID	IP Address	Port Range	Protocol	Comment
<div><input type="checkbox"/> Select All</div>				

(Note: maximum rule count is 20)



Edit

Delete

Add New

### Virtual Server

Virtual Server is used to forward a specific external port to an internal port in a one port to one port relationship.

SIM 1 ☐

SIM 2 ☐

Wi-Fi ☒

**Virtual Server Rule Table**

ID	IP Address	Public Port	Private Port	Protocol
<div><input type="checkbox"/> Select All</div>				

(Note: maximum rule count is 20)

Edit

Delete

Add New

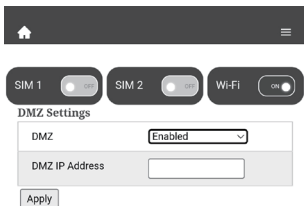
English

– 30 –

## Professional Settings

### DMZ

The Demilitarized Zone (DMZ) is an internal network of an organization, which is made available to an untrusted network. As per security, the DMZ falls between trusted and untrusted networks. Maintenance of the DMZ helps to improve security of to an organization's internal network.



SIM 1 ☐ OFF SIM 2 ☐ OFF Wi-Fi ☒ ON

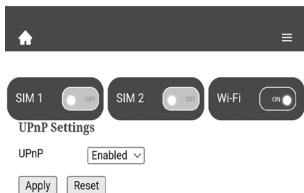
**DMZ Settings**

DMZ

DMZ IP Address

### UPnP

Universal Plug and Play (UPnP) is a network protocol that allows devices to discover each other on the network. The discovered devices can then establish network services for data sharing, communications, and entertainment.



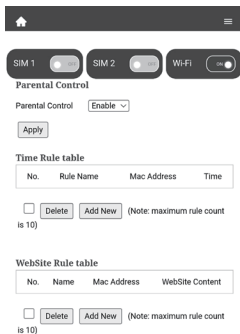
SIM 1 ☐ OFF SIM 2 ☐ OFF Wi-Fi ☒ ON

**UPnP Settings**

UPnP

### Parental Control

With Parental Control you can restrict websites by time or URL from being accessed via the Router.



SIM 1 ☐ OFF SIM 2 ☐ OFF Wi-Fi ☒ ON

**Parental Control**

Parental Control

**Time Rule table**

No.	Rule Name	Mac Address	Time
-----	-----------	-------------	------

☐   (Note: maximum rule count is 10)

**WebSite Rule table**

No.	Name	Mac Address	WebSite Content
-----	------	-------------	-----------------

☐   (Note: maximum rule count is 10)

## Professional Settings

### Network Management

Under this setting you can control the Network access settings.

### NTP

The Network Time Protocol (NTP) synchronizes the time of day among a set of distributed time servers and clients so that you can correlate events when you receive system logs and other time-specific events from multiple network devices.

### Backup and Restore

With this feature you can make a backup file of the settings you have made to the router and restore them at a later time.



## Professional Settings

### Dynamic DNS (DDNS)

The Domain Name System (DNS) is a feature that maps Internet domain names to IP addresses. Dynamic DNS (DDNS) is a feature that allows devices to be located through domain names even if the IP address of the device has changed.

DDNS Settings

DDNS Status: Disabled

Dynamic DNS Provider: Disabled

User Name:

Password:

Domain Name:

Apply

### VPN Passthrough

Virtual Private Network (VPN) is a method of connecting multiple private networks across the Internet. VPNs can serve to achieve many different goals, but some of its main purposes are:

- Access between remote private networks
- Data encryption
- Anonymity when browsing the Internet

VPN Passthrough

L2TP Passthrough: Enabled

IPsec Passthrough: Enabled

PPTP Passthrough: Enabled

Apply

### Routing

Manually define the routing path for your website connections.

Rule table

No.	Destination	Netmask	Gateway	Flags
1	0.0.0.0	0.0.0.0	192.168.1.1	3
2	192.168.0.0	255.255.255.0	0.0.0.0	1
3	192.168.1.0	255.255.255.0	0.0.0.0	1

Delete Add New (maximum alert10)

Dynamic Routing Settings



Protocol: Disable

Apply

## Professional Settings

### Diagnostic

Test your connectivity.



SIM 1 ☐

SIM 2 ☐

Wi-Fi ☒

#### Diagnostic Tool

Choose Operation : ☐ Ping ☒ Traceroute



Host :

```
traceroute to 8.8.8.8 (8.8.8.8), 30 hops max, 38 byte packets
 1 192.168.1.1 (192.168.1.1)  20.254 ms  7.697 ms  1.877 ms
 2 10.24.50.34 (10.24.50.34)  33.419 ms  15.538 ms  9.917 ms
 3 * * *
 4 ae-64-110.lbrstr6.isp.proximus.be (91.183.241.208)  73.728 ms
 5 * ae-1-1000.lbrstr5.isp.proximus.be (91.183.246.86)  72.661 ms
 6 ams.google.com (91.183.245.122)  80.107 ms  78.868 ms  39.276 ms
 7 108.170.241.161 (108.170.241.161)  39.276 ms  108.170.241.161
 8 108.170.227.3 (108.170.227.3)  79.831 ms  142.251.225.135
 9 8.8.8.8 (8.8.8.8)  39.304 ms  80.510 ms  78.184 ms
```

Send

### System Log

See and clear recent activities on your Router.



SIM 1 ☐

SIM 2 ☐

Wi-Fi ☒

#### System Log

Refresh

Clear

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# Troubleshooting

## **Q1. How can I test the speed of my connection?**

A1: There are various apps available that can be used to measure your upload and download speed. We recommend the Ookla speed test app, available from the App Store and Google Play Store. Before running the test, make sure your device is receiving internet through the router.

## **Q2. What Download speed do I need to watch TV through my Pioneer Router ?**

A2: As a general rule of thumb, you will need 3Mbps to stream standard definition video and 5Mbps to stream high definition video.

## **Q3. My phone is connected to the Pioneer Router but I don't have any phone signal?**

A3: DCT-WR204 creates a Wi-Fi hotspot which can be used to provide a Wi-Fi connection to your device. This means it can be used for all features on your device that use an internet connection. This includes Facetime, WhatsApp and Wi-Fi calls, but will not include traditional voice calls and SMS text messages.

## **Q4. I am connected to the DCT-WR204 with a good Wi-Fi signal but nothing is loading?**

A4: If you are near to the Router, it is likely that you will have a strong Wi-Fi connection to the router. However, this doesn't mean that the Router is receiving a strong signal from the 3G/4G network. We suggest trying a different location and ensuring you still have data on your SIM card. If you are using the router to connect to an existing Wi-Fi hotspot, check the Wi-Fi source is reliable and has a good download speed before connecting the Router to it.

## **Q5. Why has my phone got faster internet speed than my DCT-WR204?**

A5: The Pioneer Router has been optimised for remote and rural locations where our customers tend to travel. Using the router's 3G/4G capabilities in urban locations where the 3G/4G signal is strong, you should still be able to receive a fast internet speed (enough to stream HD TV). However, the DCT-WR204 performs best when 3G/4G signal is limited, allowing you to use the internet when other devices can't.

## **Q6. I have forgotten my administrator password, what should I do?**

A6: You will need to carry out a factory reset by keeping the Reset key depressed for 5 seconds. This "factory Reset" will delete all user settings to the factory default including the Administrator Password to the one that is on the Router Label.

## **Q7. Where can I find more information about the advanced & Professional functionality of my router?**

A7: If this manual does not cover the function you wish to use,...

## **Q8. Does the DCT-WR204 work on 5G?**

A8: No. The benefits of 5G to our customers are still limited due to the limited number of (mostly urban) areas where the technology is available.

## **Q9. Does the DCT-WR204 work when my vehicle is moving?**

A9: Yes, when the Router is using 3G/4G as the connection source (rather than Wi-Fi), it will work when you are in motion.

## **Q10. Why do I lose connection to my DCT-WR204 when I move in or out of range of the Wi-Fi source my Router is using?**

A10: The Router will automatically detect and connect to the Wi-Fi source (WWAN) you have set up in the Web User Interface. If you move out of range- this will be indicated by the WWAN LED turning OFF- you need to select another connection method (SIM1 or SIM2) in the WebUI.

## **Q11. I am revisiting a location where I have previously been connected to the Wi-Fi using the DCT-WR204. Why doesn't my DCT-WR204 automatically reconnect?**

A11: When using an existing Wi-Fi hotspot as the connection source, the DCT-WR204 will only store the last Wi-Fi hotspot used. If you are revisiting a location which was not the most recent location used, you will need to visit the Web User Interface to input the new Wi-Fi source details.

# Troubleshooting

## **Q12. Some buttons on the Web UI are not responding?**

A13: We recommend using the Google Chrome browser when using the Web UI. If you are using a different browser and experience problems, you can also try holding down the button you wish to select.

## **Q13. I have connected the DCT-WR204 Router to an existing Wi-Fi source, however I cannot receive the internet.**

A13: It is possible that the IP Address of your Wi-Fi source is the same as that of the DCT-WR204 Router. This will cause this function to stop working. You can try moving closer to the source. If this does not work, the Wi-Fi source may be too slow to use; the connection received through the DCT-WR204 Router is only as good as the source.

## **Q14. The 192.168.0.1 web address does not open the WebUI. - Ensure the device you are connected to is receiving its Wi-Fi from the DCT-WR204 Router.**

A14: Ensure that you have not changed the LAN IP address. If this has been changed, the new IP address must be used to access the WebUI.

## **Q15. Why does my Apple device say the DCT-WR204 Wi-Fi has weak security?**

A15: Firstly, rest assured this message is nothing to worry about and your Wi-Fi connection is still perfectly secure. As default, the DCT-WR204 Router uses WPA2-PSK as the Wi-Fi security standard. As new standards emerge, Apple have highlighted vulnerabilities in the WPA2-PSK encryption standard and therefore devices on iOS 14 or newer highlight this with the 'weak security' message. In reality, this protocol remains secure and is the standard used by most routers in the marketplace today. The newer gold standard protocol is WPA3.

## **Q16. What are the lights on the side of the DCT-WR204 Router telling me?**

A16: Basic use and diagnosis using the LED's has been outlined below.

## **Q17. I was connected to a LAN internet connection, but when I disconnect the LAN cable, I cannot get connectivity from 4G.**

A17: Pls restart the router.

# Specifications

<b>Wi-Fi</b>	Dual Band 2.4GHz and 5GHz <ul style="list-style-type: none"> <li>• On-board 802.11 b/g/n</li> <li>• Frequency band 2.4GHz : 2412 MHz to 2472 MHz</li> <li>• Output power 2.4GHz : + 19 dBm Max.</li> <li>• Frequency band 5GHz : 5180 MHz to 5240 MHz</li> <li>• Output power 5GHz : + 23 dBm Max.</li> </ul>
<b>External LTE connectors</b>	2 (SMA type)
<b>External Wi-Fi antenna connectors</b>	2 (SMA type)
<b>Internal Wi-Fi antenna</b>	2
<b>Connections</b>	32 simultaneous device connections
<b>Repeater</b>	Wi-Fi repeater with Captive Hotspot Support
<b>Switch</b>	External manual ON/OFF Switch
<b>Timer</b>	Sleeptimer
<b>Security</b>	WPA / TKIP / AES
<b>Network</b>	4G LTE (with 3G Fallback)
<b>Speed</b>	CAT4 (uplink data rate 50Mbps max, downlink data rate 150Mbps max)
<b>APN Selection</b>	Manual or Automatic
<b>LAN Ports</b>	2 (1 LAN + 1 LAN/WAN)
<b>Nano SIM slots</b>	2
<b>Power Supply Voltage</b>	DC 12 V (exclusive power supply included)
<b>Power Consumption</b>	Approx. 0.5A
<b>Operating Temperature</b>	-20 °C to +60 °C for Main Unit
<b>Dimensions (L × W × H)</b>	Main Unit: 149 mm × 77 mm × tbc mm (length × width × height) Antenna (sold separately): 61 mm × 172 mm × 47 mm (width × length × height)
<b>Weight</b>	Main Unit: 350 g (excluding antenna.) Antenna: 260 g
<b>Allowable Instalation Angle</b>	0 ° to 90 °

**<https://www.pioneer-car.eu/eur/>**

Visit **[www.pioneer-car.eu/uk/](https://www.pioneer-car.eu/uk/)** (or **[www.pioneer-car.eu/eur/](https://www.pioneer-car.eu/eur/)**) to register your product.

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