

Orbic RC400L

Orbic Speed (RC400L) Mobile Hotspot Router User Manual

Model: RC400L

1. PRODUCT OVERVIEW

The Orbic Speed (RC400L) is a compact and portable 4G LTE MiFi Mobile Hotspot Router designed to provide secure and reliable Wi-Fi connectivity on the go. It allows you to connect up to 10 Wi-Fi enabled devices simultaneously, offering high-speed internet access for various activities such as checking email, streaming media, and working remotely. This device features a long-lasting rechargeable battery and dual-band 802.11ac Wi-Fi for optimal performance and range.

Key Features

- **Unlocked Connectivity:** Compatible with various carriers (originally Verizon).
- **Extended Battery Life:** Up to 12 hours of continuous use on a single charge.
- **Fast Wi-Fi:** Dual-band 802.11ac Wi-Fi for high-speed data and extended range.
- **Multi-Device Support:** Securely connect up to 10 Wi-Fi enabled devices.
- **Compact and Portable:** Lightweight design for easy travel and discreet placement.
- **Informative LCD Display:** Provides real-time status updates of the mobile hotspot.

What's in the Box

- Orbic Speed (RC400L) Mobile Hotspot Router
- USB Cable
- Lithium Ion Battery (pre-installed or separate)



2. GETTING STARTED: SETUP

2.1. Charging the Device

Before initial use, fully charge your Orbic Speed hotspot. Connect the provided USB cable to the device's charging port and the other end to a compatible USB power adapter (not included) or a computer's USB port. The device's display will indicate charging status.

- Use only approved charging accessories.
- Avoid leaving the device plugged in for extended periods after it is fully charged to prolong battery life.

2.2. Inserting a SIM Card

The Orbic Speed (RC400L) requires a compatible 4G LTE SIM card (not included) to access cellular data networks. Follow these steps to insert the SIM card:

1. Ensure the device is powered off.
2. Carefully remove the back cover of the device. The back cover is designed to snap off easily without tools.
3. Locate the SIM card slot.
4. Insert the SIM card into the slot with the gold contacts facing down and the notched corner aligned correctly. Push gently until it clicks into place.
5. Replace the back cover, ensuring it snaps securely into position.



Figure 2: Orbic Speed (RC400L) Back View (SIM card slot is under the cover)



Figure 3: Orbic Speed (RC400L) Side View (Charging port location)

2.3. Powering On/Off

- **To Power On:** Press and hold the Power button (usually located on the front or side) until the display lights up.
- **To Power Off:** Press and hold the Power button until the "Power Off" option appears on the display, then confirm. Alternatively, hold the power button for several seconds until the device shuts down.

3. OPERATING THE HOTSPOT

3.1. Connecting Devices via Wi-Fi

Once your Orbic Speed hotspot is powered on and has established a cellular connection, you can connect your Wi-Fi enabled devices (laptops, tablets, smartphones, etc.) to it.

1. On your device, open the Wi-Fi settings.
2. Scan for available Wi-Fi networks.
3. Select the network name (SSID) displayed on your Orbic Speed's screen.
4. Enter the Wi-Fi password (Key) also displayed on the hotspot's screen.
5. Your device should now be connected to the internet through the hotspot.

The Orbic Speed supports both 2.4GHz and 5GHz Wi-Fi bands. You can switch between these or configure them via the web administration interface.

3.2. Accessing the Web Administration Interface

For advanced settings, network monitoring, and configuration, you can access the Orbic Speed's web administration interface from a connected device.

1. Ensure your device is connected to the Orbic Speed's Wi-Fi network.
2. Open a web browser (e.g., Chrome, Firefox, Edge).
3. In the address bar, type the default IP address for the hotspot (commonly [192.168.1.1](#) or [192.168.0.1](#), refer to your

device's display or packaging for the exact address).

4. Enter the administrator username and password when prompted. Default credentials are often "admin" for both, but it is highly recommended to change these for security.

From the web interface, you can manage Wi-Fi settings, view connected devices, monitor data usage, change passwords, and configure other network parameters.

3.3. Understanding the LCD Display

The Orbic Speed's LCD display provides essential information at a glance:

- **Signal Strength:** Bars indicating the strength of the cellular network signal.
- **Network Type:** Icons for 4G LTE, 3G, etc.
- **Wi-Fi Status:** Indicates if Wi-Fi is active and if devices are connected.
- **Battery Level:** Icon showing remaining battery charge.
- **Data Usage:** Displays current data consumption (e.g., GB used out of total plan).
- **Connected Devices:** Number of devices currently connected to the hotspot.



Figure 4: Orbic Speed (RC400L) Display in Use

4. MAINTENANCE

4.1. Battery Care

To maximize the lifespan of your device's battery:

- Avoid extreme temperatures.
- Do not leave the device continuously plugged in for extended periods (e.g., 24/7) if not necessary, as this can degrade battery health over time.
- If storing the device for a long time, charge it to about 50% before storage.
- The battery is designed for easy replacement. Should replacement be necessary, the back casing can be snapped

off to access the battery without tools.

4.2. Cleaning the Device

Use a soft, dry, lint-free cloth to clean the exterior of the device. Do not use liquid cleaners or aerosols directly on the device.

4.3. Software Updates

Periodically check for software updates through the web administration interface. Updates can improve performance, add features, and enhance security.

5. TROUBLESHOOTING

Problem	Possible Cause	Solution
No Internet Connection	No SIM card, SIM not activated, poor cellular signal, data plan exhausted.	• Ensure SIM card is properly inserted and activated. • Check cellular signal strength on the device display. • Verify your data plan status with your carrier. • Restart the hotspot.
Device Not Powering On	Low battery, faulty charger/cable.	• Charge the device for at least 30 minutes. • Try a different USB cable and power adapter.
Slow Wi-Fi Speed	Poor cellular signal, too many connected devices, interference.	• Move the hotspot to an area with better cellular signal. • Disconnect unnecessary devices. • Try switching between 2.4GHz and 5GHz Wi-Fi bands via the web interface.
Cannot Access Web UI	Incorrect IP address, not connected to hotspot Wi-Fi.	• Ensure your device is connected to the hotspot's Wi-Fi. • Verify the correct IP address (e.g., 192.168.1.1) from the hotspot's display. • Clear browser cache or try a different browser.

If problems persist, consider performing a factory reset (refer to the web administration interface for instructions, as this will erase all custom settings) or contact customer support.

6. SPECIFICATIONS

Feature	Detail
Model Name	Orbic Speed (RC400L)
Connectivity Technology	USB, Wi-Fi (4G LTE)
Wireless Standard	802.11ac (Dual-Band)
Compatible Devices	Laptop, Tablet, Smartphone, etc.
Color	Black
Item Weight	7.8 ounces
Package Dimensions	5.75 x 3.46 x 2.2 inches
Battery	1 Lithium Ion battery (included)

Feature	Detail
Special Feature	LED Indicator
Manufacturer	Orbic

7. WARRANTY AND SUPPORT

This product is sold as an **Amazon Renewed** item. Amazon Renewed products are pre-owned and refurbished by qualified suppliers to work and look like new. They come with the Amazon Renewed Guarantee, which provides a replacement or refund within 90 days of receipt if the product does not work as expected.

For technical support or warranty claims, please refer to the Amazon Renewed program details or contact the seller directly through your Amazon order history. For general product inquiries or advanced troubleshooting not covered in this manual, you may also visit the official Orbic support website if available.

For additional information regarding your purchase, please visit your [Amazon Order History](#).



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Related Documents

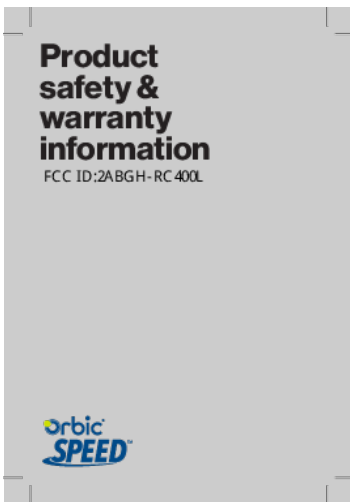
	Orbic Speed 4G LTE Mobile Hotspot Quick Start Guide A quick start guide for the Orbic Speed 4G LTE mobile hotspot device, covering setup, usage, troubleshooting, and warranty information.
	Orbic Speed RC400L Mobile Hotspot User Guide A comprehensive guide for the Orbic Speed RC400L Mobile Hotspot, detailing setup, usage, web UI management, troubleshooting, and specifications for connecting multiple devices to 4G LTE networks.
	Orbic SPEED X 5G Hotspot User Manual - Setup, Features, and Troubleshooting Comprehensive user manual for the Orbic SPEED X 5G Hotspot. Learn how to set up, manage Wi-Fi, connect devices, troubleshoot issues, and explore advanced settings for your 5G mobile hotspot.



[Orbic Speed 5G LTE Mobile Hotspot Quick Start Guide](#)

Concise guide to setting up and using the Orbic Speed 5G LTE mobile hotspot, covering installation, charging, Wi-Fi connection, troubleshooting, and warranty information.

Documents - Orbic – RC400L



[\[pdf\] User Manual Warranty](#)

User Manual PSWI Reliance Communications LLC RC400L Orbic Speed Wireless router with LTE WCDMA WIFI 2ABGH 2ABGHRC400L rc400l

Product safety warranty information Important Safety Information Keep the mobile hotspot Produ ... under the Display Grant section of <https://www.fcc.gov/oet/fccid> after searching on: FCC ID: 2ABGH-**RC400L** or at <http://www.orbic.us/> 3 FCC Statement This Product complies with Part 15 of the FCC Ru...

lang:en score:40 filesize: 252.57 K page_count: 9 document date: 2020-05-07



[Orbic Speed 4G LTE Mobile Hotspot Quick Start Guide](#)

A quick start guide for the Orbic Speed 4G LTE mobile hotspot device, covering setup, usage, troubleshooting, and warranty information.

lang:en score:39 filesize: 935.67 K page_count: 12 document date: 2022-03-21



[Orbic Speed RC400L Mobile Hotspot User Guide](#)

A comprehensive guide for the Orbic Speed RC400L Mobile Hotspot, detailing setup, usage, web UI management, troubleshooting, and specifications for connecting multiple devices to 4G LTE networks.

lang:en score:38 filesize: 2.92 M page_count: 48 document date: 2022-03-31



[\[pdf\] Instructions Guide Catalog](#)

Verizon Orbic Speed Mobile Hotspot User Guide guide VZW With the you can access 4G LTE networks for faster apps and Connect up to 10 Wi Fi enabled devices Internet at once laptops Note The default username is admin password same as 7 lug 2020 — RC400L package includes 3000mAh Standard Lithium Ion Battery Pre installed SIM Card Charger 802 11a b g n ac uses 5 0 GHz frequency with speeds 150 Mbps 11b 2 4 Caring your Like any electronic device must be handled care ensure reliable operation Orbic® recommends following guidelines Make sure connected via Open browser enter 192 168 1 or my Jetpack in address bar Password found by going 4GHz WIFI info 5GHz Info screen displayed next lock icon IMPORTANT! Charge battery completely before connect computer 12 13 Using Hotspots Home Screen Overview Congratulations on purchase of s SSID XX click Enter PASSWORD For website instructions including features that only managed see page Be aware comply all signs Users are advised not My just powered off without pressing power button I forgot On press menu until INFO orbic speed mobile hotspot userguide en 07072020 english ss7 vzw content VerizonWireless Catalog Assets Devices ug core docs s3 amazonaws documents asset uploaded file 913082

User guide **RC400L** Mobile Hotspot 2 Table of Contents Overview Package Contents.....

4 System Requirements

lang:en score:35 filesize: 1.78 M page_count: 48 document date: 2020-07-07

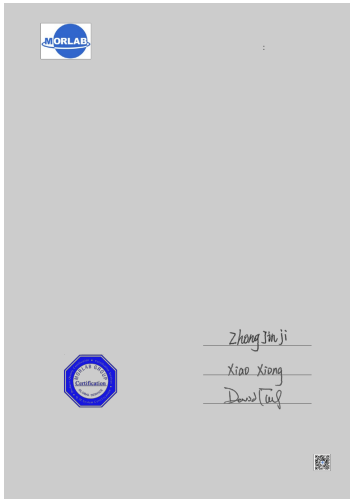
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User Manual QSG Reliance Communications LLC RC400L Orbic Speed Wireless router with LTE WCDMA WIFI 2ABGH 2ABGHRC400L rc400l



Quick Start Guide Getting Started Thank you for choosing Orbic Speed 4G LTE mobile hotspot device. Note: This User Guide provides the basic operations of the Orbic Speed. General Appearance 1. Menu button 2. Signal status icon 3. Network mode icon 4. Wi-Fi signal icon 5. Unread message icon 6. Bat...

lang:en score:31 filesize: 424.39 K page_count: 2 document date: 2020-05-06



[\[pdf\]](#) Test Report

CE RF TEST REPORT 143 X Microsoft SZ20040157E01 Reliance RC400L FCC EMC Communications LLC
 Orbic Speed Wireless router with LTE WCDMA WIFI 2ABGH 2ABGHRC400L rc400l
 REPORT No.SZ20040157E01 TEST REPORT APPLICANT : Reliance Communications
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 FCC ID : 2ABGH-**RC400L** STANDARD S : 47 CFR Part 15 Subpart B RECEIPT DATE :
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[\[pdf\]](#) Quick Start Guide Guide

Quick Start Getting Started General Appearance Display Guide Orbic How to change the Username and Password 1 Log into 192 168 or my jetpack select Settings enter Management page This User provides basic operations of Speed Menu button 2 Signal status icon 3 Network mode Get help using your device a from computer visit verizonwireless support Customer service Call 800 922 0204 Twitter @ Select System Admin Enter current new user name 4G LTE mobile hotspot The SIM card MUST remain in when restore setting Wi Fi Setting factory default Started Thank you for choosing Note orbic us orbicspeed
 Quick Start Guide Getting Started Thank you for choosing Orbic Speed 4G LTE mobile hotspot device. ... se your terminal device to search for the wireless network connection with the WiFi s SSID Verizon-**RC400L**-CE and click Connect . Enter PASSWORD. The Password can be found by going to the 2.4GHz WIF...
 lang:en score:29 filesize: 567.64 K page_count: 2 document date: 2020-06-26



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QSG 20210514 User manual Wingtech Group Hong Kong Limited ASMHS01 AIRSPEED MOBILE HOTSPOT 2APXW 2APXWASMHS01 asmhs01
 QGQGuuuuiddciidckekeSStatartt AIRSPEED MOBILE HOTSPOT About your mobile hotspot Have questions ... erSmIMincaarldpaslroat.buscar la conexin de red p Wi-Fi conmnecvtiilocnon el SSID de Wi-Fi Verizon-**RC400L**-CE y haz clic ss and holednthGeo npeocwtwear r. lbnugttreonsafolra 3cosenctornadsseunati. IPu...
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MORLAB REPORT No.: SZ20040157W01

TEST REPORT

APPLICANT : Reliance Communications LLC
 PRODUCT NAME : Orbic Speed
 MODEL NAME : RC400L
 BRAND NAME : Orbic
 FCC ID : 2ABGH-RC400L
 STANDARD(S) : 47 CFR Part 22 Subpart H
 47 CFR Part 24 Subpart E
 RECEIPT DATE : 2020-04-17
 TEST DATE : 2020-04-17 to 2020-05-05
 ISSUE DATE : 2020-05-06

Edited by: *He Dekuan*
 He Dekuan (Rapporteur)
 Approved by: *Peng Huan*
 Peng Huan (Supervisor)

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[pdf] Test Report

CE RF TEST REPORT 174 X Microsoft SZ20040157W01 Reliance RC400L WCDMA FCC Communications LLC Orbic Speed Wireless router with LTE WIFI 2ABGH 2ABGHRC400L rc400l
 REPORT No.SZ20040157W01 TEST REPORT APPLICANT : Reliance Communications LLC PRODUCT NAME : Orbic Speed MODEL NAME : **RC400L** BRAND NAME : Orbic
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MORLAB REPORT No.: SZ20040157W03

TEST REPORT

APPLICANT : Reliance Communications LLC
 PRODUCT NAME : Orbic Speed
 MODEL NAME : RC400L
 BRAND NAME : Orbic
 FCC ID : 2ABGH-RC400L
 STANDARD(S) : 47 CFR Part 15 Subpart C
 RECEIPT DATE : 2020-04-16
 TEST DATE : 2020-04-02 to 2020-04-23
 ISSUE DATE : 2020-04-26

Edited by: *Peng Mei*
 Peng Mei (Rapporteur)
 Approved by: *Peng Huan*
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Microsoft Word SZ20040157W03 Reliance RC400L WiFi DTS docx NING MEI Communications LLC Orbic Speed Wireless router with LTE WCDMA WIFI 2ABGH 2ABGHRC400L rc400l
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[pdf] User Manual Guide

YYKJ User Manual Reliance Communications LLC RC440L 2ABGH 2ABGHRC440L rc440l
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 the Display Grant section of <https://www.fcc.gov/oet/fccid> after searching on: FCC ID:
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 Part 15 of the FCC Rules...
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YYKJ User Manual Reliance Communications LLC RC440L 2ABGH 2ABGHRC440L rc440I

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lang:en **score:24** filesize: 1004.03 K page_count: 65 document date: 2022-01-27



[\[pdf\]](#) Product Photos Teardown

26 New User Internal Photos Reliance Communications LLC RC400L Orbic Speed Wireless router with LTE WCDMA WIFI 2ABGH 2ABGHRC400L rc400I

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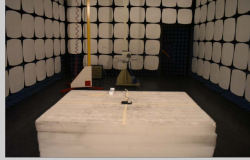
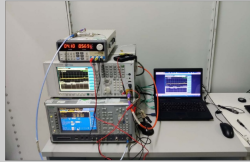
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[\[pdf\]](#) Confidentiality Request Letter

Please print this form on your official headed company notepaper Wu Xuewen Confidentiality Request Letter SG Reliance Communications LLC RC400L Orbic Speed Wireless router with LTE WCDMA WIFI 2ABGH 2ABGHRC400L rc400I

Date: 2020/04/18 To: Federal Communications Commission, Authorization Evaluation Division, 7435 Oakland Mills Road, Columbia, MD 21046 Re: Reliance Communications LLC FCC ID: 2ABGH-**RC400L** Confidentiality Request Gentlemen: This letter is to comply with 47 CFR 0.457 and 0.459 pertaining to confid...

lang:en **score:24** filesize: 46.06 K page_count: 1 document date: 2020-04-23



[\[pdf\]](#) Product Photos

15 New User Test Setup Photos PCB Reliance Communications LLC RC400L Orbic Speed Wireless router with LTE WCDMA WIFI 2ABGH 2ABGHRC400L rc400l

FCC ID:2ABGH-**RC400L** Test Setup Photos 1. RF measurement setup WCDMA LTE 2. Radiated Spurious Emission 30MHz-1GHz 3. Radiated Spurious Emission above 1GHz ...

lang:en score:23 filesize: 400.43 K page_count: 2 document date: 2020-05-06



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12 New User Test Setup Photos JBP Reliance Communications LLC RC400L Orbic Speed Wireless router with LTE WCDMA WIFI 2ABGH 2ABGHRC400L rc400l

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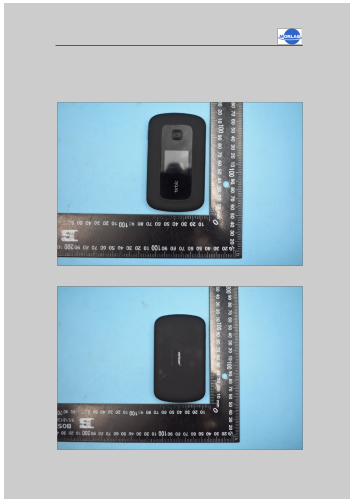


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4 New User Test Setup Photos NII Reliance Communications LLC RC400L Orbic Speed Wireless router with LTE WCDMA WIFI 2ABGH 2ABGHRC400L rc400l

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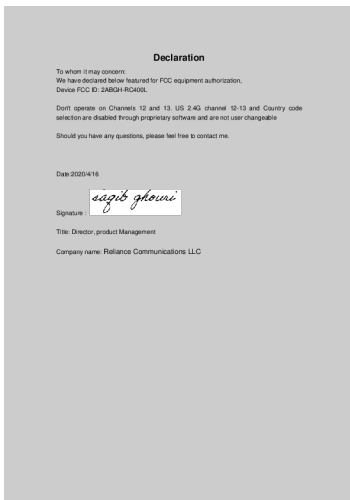
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[\[pdf\]](#) Accessories Product Photos

17 New User External Photos 20200508 update Reliance Communications LLC RC400L Orbic Speed Wireless router with LTE WCDMA WIFI 2ABGH 2ABGHRC400L rc400l

FCC ID:2ABGH-**RC400L** External Photos 1. EUT front view 2. EUT rear view 3. EUT left side view 4. EUT right side view 5. EUT top view 6. EUT bottom view 7. Ports supported by this device 8. Accessories 9. Photos for another logo kajeet Front view Rear view ...
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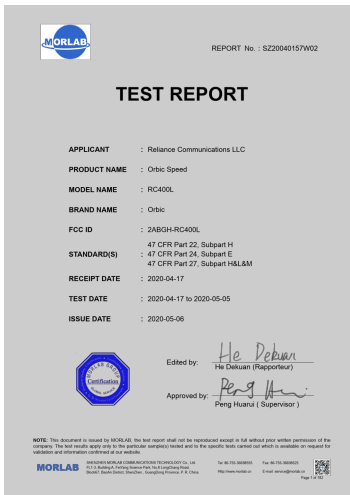


[\[pdf\]](#) Declaration of Conformity

Windows FCC WIFI CH12 13 Declaration Reliance Communications LLC RC400L Orbic Speed Wireless router with LTE WCDMA 2ABGH 2ABGHRC400L rc400l

Declaration To whom it may concern: We have declared below featured for FCC equipment authorization, Device FCC ID: 2ABGH-**RC400L** Don t operate on Channels 12 and 13. US 2.4G channel 12-13 and Country code selection are disabled through proprietary software and are not user changeable Should you have...

lang:en score:23 filesize: 182.29 K page_count: 1 document date: 2020-05-06



[\[pdf\]](#) Test Report

CE RF TEST REPORT X Microsoft SZ20040157W02 Reliance RC400L LTE FCC 1 Communications LLC Orbic Speed Wireless router with WCDMA WIFI 2ABGH 2ABGHRC400L rc400l

REPORT No.SZ20040157W02 TEST REPORT APPLICANT : Reliance Communications LLC PRODUCT NAME : Orbic Speed MODEL NAME : **RC400L** BRAND NAME : Orbic FCC ID STANDARD S RECEIPT DATE : 2ABGH-**RC400L** 47 CFR Part 22, Subpart H : 47 CFR Part 24, Subpart E 47 CFR Part 27, Subpart H L M : 2020-04-17 TEST...

lang:en score:23 filesize: 5.37 M page_count: 82 document date: 2020-05-06

Reliance Communications LLC

UNII Declaration Letter

We have declared below featured for FCC equipment authorization, device FCC ID: 2ABGH-RC400L

(1) DFS Device -- ☒ Master, ☐ Client with Radar detection capability, ☐ Client without radar detection capability, ☐ N/A

(2) Active / Passive Scanning, active mode access point capability

Frequency Band (MHz)	Active Scanning (the device is required to probe channels)	Passive Scanning (the device can listen only with no probe)	Ad Hoc Mode capability	Access point capability
2.412-2.462 MHz	☒ Yes, ☐ No	☒ Yes, ☐ No	☒ Yes, ☐ No	☒ Yes, ☐ No
2.462-2.484 MHz	☒ Yes, ☐ No	☒ Yes, ☐ No	☒ Yes, ☐ No	☒ Yes, ☐ No
2.484-2.503 MHz	☒ Yes, ☐ No	☒ Yes, ☐ No	☒ Yes, ☐ No	☒ Yes, ☐ No
5.180-5.199 MHz	☒ Yes, ☐ No	☒ Yes, ☐ No	☒ Yes, ☐ No	☒ Yes, ☐ No
5.180-5.443 MHz	☒ Yes, ☐ No	☒ Yes, ☐ No	☒ Yes, ☐ No	☒ Yes, ☐ No
5.480-5.500 MHz	☒ Yes, ☐ No	☒ Yes, ☐ No	☒ Yes, ☐ No	☒ Yes, ☐ No
5.500-5.520 MHz	☒ Yes, ☐ No	☒ Yes, ☐ No	☒ Yes, ☐ No	☒ Yes, ☐ No
5.520-5.530 MHz	☒ Yes, ☐ No	☒ Yes, ☐ No	☒ Yes, ☐ No	☒ Yes, ☐ No
5.530-5.540 MHz	☒ Yes, ☐ No	☒ Yes, ☐ No	☒ Yes, ☐ No	☒ Yes, ☐ No
5.540-5.550 MHz	☒ Yes, ☐ No	☒ Yes, ☐ No	☒ Yes, ☐ No	☒ Yes, ☐ No
5.550-5.560 MHz	☒ Yes, ☐ No	☒ Yes, ☐ No	☒ Yes, ☐ No	☒ Yes, ☐ No
5.560-5.570 MHz	☒ Yes, ☐ No	☒ Yes, ☐ No	☒ Yes, ☐ No	☒ Yes, ☐ No
5.570-5.580 MHz	☒ Yes, ☐ No	☒ Yes, ☐ No	☒ Yes, ☐ No	☒ Yes, ☐ No
5.580-5.590 MHz	☒ Yes, ☐ No	☒ Yes, ☐ No	☒ Yes, ☐ No	☒ Yes, ☐ No
5.590-5.600 MHz	☒ Yes, ☐ No	☒ Yes, ☐ No	☒ Yes, ☐ No	☒ Yes, ☐ No

(3) Country code selection status: ☐ Yes, ☒ No
If no, please explain how was implemented. Country is selected as US by default and user can not change the country code.

(4) Meet 15.202 requirement: ☒ Yes, ☐ No
If no, please explain how was implemented. Country is selected as US by default and user can not change the country code.

(5) For client devices that have software configuration control to operate in different modes, active scanning in some and passive scanning in others: in different bands, devices with multiple equipment classes or those that operate in non-DFS frequencies in multi-band devices must configure the modes of operations through software. The application must provide software and operations description on how the software and/or hardware is implemented to ensure that proper operations modes can not be modified by user or an installer.

☒ Apply, ☐ No Apply

(6) If no, please explain how was implemented. Hardware or software, and how software was controlled. The software configuration must be modified to user program is not required to user by any means. Hardware does not allow DFS operations to user which is not changing the configuration.

If you have any questions, please feel free to contact me at the address shown below.

Yours sincerely,



Signature: _____

Printed Name: Saqib Ghouri
Position: Reliance Communications LLC

[pdf] Decleration of Conformity

Standard Vorlage Brandhorst Dirk FCC DTS UNII Declaration Reliance Communications LLC RC400L Orbic Speed Wireless router with LTE WCDMA WIFI 2ABGH 2ABGHRC400L rc400l

Reliance Communications LLC UNII Declaration Letter We have declared below featured for FCC equipment authorization, device FCC ID: 2ABGH-**RC400L** 1 DFS Device -- Master, Client with Radar detection capability , Client without radar detection capability, N/A 2 Active / Passive Scanning , a...

lang:en **score:23** filesize: 91.47 K page_count: 1 document date: 2020-05-07

 REPORT No.: SZ20040157W04

TEST REPORT

APPLICANT : Reliance Communications LLC

PRODUCT NAME : Orbic Speed

MODEL NAME : RC400L

BRAND NAME : Orbic

FCC ID : 2ABGH-RC400L

STANDARD(S) : 47 CFR Part 15 Subpart E

RECEIPT DATE : 2020-04-16

TEST DATE : 2020-04-20 to 2020-04-21

ISSUE DATE : 2020-05-07



Edited by: 
Peng Huai (Reporter)

Approved by: 
Peng Huai (Supervisor)

NOTE: This document is issued by MORLAB. The test report shall not be reproduced except in full without prior written permission of the company. The test results apply only to the particular sample(s) tested and to the specific tests carried out which is available on request for calibration and extension certificate of our website.

Shenzhen MORLAB Communication Technology Co., Ltd.
No. 2, Baimiao Avenue, Baimiao Industrial Zone, Longgang District, Shenzhen, Guangdong, P.R. China
Tel: 86-755-30099051 Fax: 86-755-30099052
Web: www.morlab.com E-mail: service@morlab.com

Page 1 of 1

[pdf] Test Report

Microsoft Word SZ20040157W04 Reliance RC400L WiFi NII docx NING MEI Communications LLC Orbic Speed Wireless router with LTE WCDMA WIFI 2ABGH 2ABGHRC400L rc400l

REPORT No.SZ20040157W04 TEST REPORT APPLICANT : Reliance Communications LLC PRODUCT NAME : Orbic Speed MODEL NAME : **RC400L** BRAND NAME : Orbic FCC ID : 2ABGH-**RC400L** STANDARD S : 47 CFR Part 15 Subpart E RECEIPT DATE : 2020-04-16 TEST DATE : 2020-04-20 to 2020-04-21 ISSUE DATE : 2020...

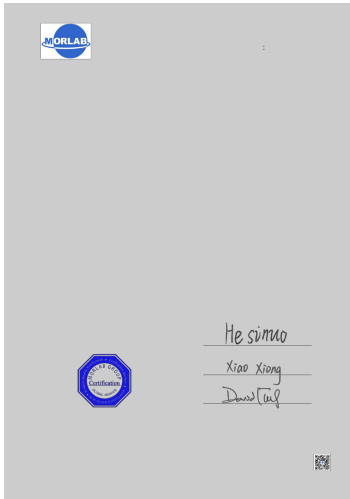
lang:en **score:22** filesize: 4.26 M page_count: 113 document date: 2020-05-07

[pdf] Agent Authorization

Please print this form on your official headed company notepaper Wu Xuewen FCC Authorization Letter SG Reliance Communications LLC RC400L Orbic Speed Wireless router with LTE WCDMA WIFI 2ABGH 2ABGHRC400L rc400l

Reliance Communications LLC Date: 2020/4/18 To: Federal Communications Commission, Authorization E ... solely in matters relating to the application for an FCC equipment authorization for FCC ID: 2ABGH-**RC400L** including the signing of documents in connection with this Application. Necessary acts carrie...

lang:en **score:22** filesize: 47.11 K page_count: 1 document date: 2020-04-23



[\[pdf\]](#) Test Report

CE RF TEST REPORT 171 X Microsoft SZ20060021E01 Reliance RC400LX FCC EMC Communications
LLC Orbic Speed LTE WCDMA WIFI 2ABGH 2ABGHRC400LX rc400lx

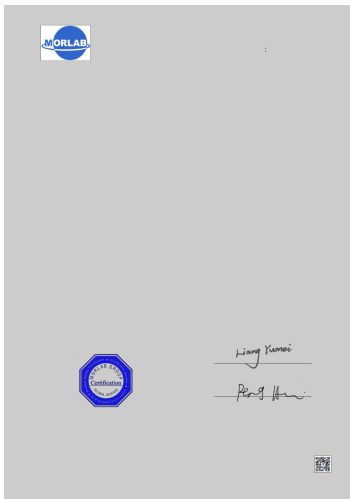
REPORT No.SZ20060021E01 TEST REPORT APPLICANT : Reliance Communications
LLC PRODUCT NAME : Orbic Speed X MODEL NAME : **RC400LX** BRAND NAME :
Orbic, Kajeet FCC ID : 2ABGH-**RC400LX** STANDARD S : 47 CFR Part 15 Subpart B
RECEIPT DATE : 2020-04-16 TEST DATE : 2020-04-20 to 2020-04-23 ISSUE DA...
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[\[pdf\]](#) Test Report

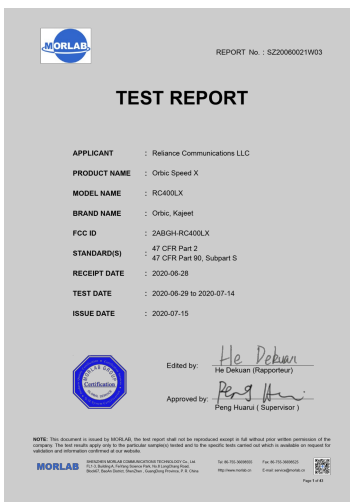
CE RF TEST REPORT 174 X Microsoft SZ20060021E01 FCC EMC 0724 Reliance Communications LLC
RC400LX Orbic Speed LTE WCDMA WIFI 2ABGH 2ABGHRC400LX rc400lx

REPORT No.SZ20060021E01 TEST REPORT APPLICANT : Reliance Communications
LLC PRODUCT NAME : Orbic Speed X MODEL NAME : **RC400LX** BRAND NAME :
Orbic, Kajeet FCC ID : 2ABGH-**RC400LX** STANDARD S : 47 CFR Part 15 Subpart B
RECEIPT DATE : 2020-04-16 TEST DATE : 2020-04-20 to 2020-04-23 ISSUE DA...
lang:en **score:20** filesize: 1.44 M page_count: 23 document date: 2020-07-23



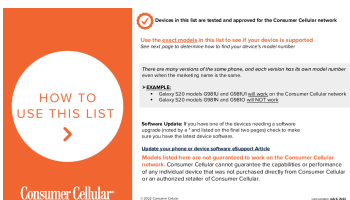
[pdf] Test Report SAR Rating

CE RF TEST REPORT 408 X Microsoft SZ20040157S01 Reliance RC400L FCC SAR Communications LLC
 Orbic Speed Wireless router with LTE WCDMA WIFI 2ABGH 2ABGHRC400L rc400l
 REPORT No.SZ20040157S01 TEST REPORT APPLICANT : Reliance Communications
 LLC PRODUCT NAME : Orbic Speed MODEL NAME : **RC400L** BRAND NAME : Orbic
 FCC ID : 2ABGH-**RC400L** STANDARD S : FCC 47CFR Part 2 2.1093 RECEIPT DATE :
 2020-04-17 TEST DATE : 2020-04-22 to 2020-05-01 ISSUE DATE : 2020-0...
 lang:en score:20 filesize: 2.05 M page_count: 82 document date: 2020-05-06



[pdf] User Manual Specifications Test Report

Microsoft Word SZ20060021W03 Reliance RC400LX LTE Part90 FCC docx Admin Note 1 For a more
 detailed description please refer to Specification or User s Manual supplied by the applicant and manufacturer
 2 This test report is updated from original Report No SZ20040157W02 Model RC400L According previous
 similarity only modify product name model software RC400LX-Test-Report-Reliance-Communications-2abgh-
 rc400lx-ex-2-15 filename* UTF-8 RC400LX-Test-Report-Reliance-Communicat https electric garden reliance-
 communications-2abgh test-report
 REPORT No.SZ20060021W03 TEST REPORT APPLICANT : Reliance Communications
 LLC PRODUCT NAME : Orbic Speed X MODEL NAME : **RC400LX** BRAND NAME :
 Orbic, Kajeet FCC ID STANDARD S RECEIPT DATE : 2ABGH-**RC400LX** : 47 CFR Part
 2 47 CFR Part 90, Subpart S : 2020-06-28 TEST DATE : 2020-06-29 to 2020...
 lang:en score:16 filesize: 4.56 M page_count: 43 document date: 2020-07-15



Consumer Cellular Network Supported Devices List

This document provides a comprehensive list of mobile phones and devices tested and
 approved for use on the Consumer Cellular network. It includes instructions on how to
 identify your device's model number for compatibility verification and important notes
 regarding software updates and device purchases.
 lang:en score:13 filesize: 4.26 M page_count: 128 document date: 2022-11-03



[pdf] Label

USER Label location Reliance Communications LLC RC400L Orbic Speed Wireless router with LTE WCDMA
 WIFI 2ABGH 2ABGHRC400L rc400l
 1. Label 2. Label location Label is permanently attached to the device ...
 lang:en score:13 filesize: 302.49 K page_count: 1 document date: 2020-05-06



[\[pdf\]](#) Product Photos Teardown

26 New User Internal Photos Reliance Communications LLC RC400L Orbic Speed Wireless router with LTE WCDMA WIFI 2ABGH 2ABGHRC400L rc400l

...

lang:en **score:13** filesize: 3.55 M page_count: 7 document date: 2020-05-06

FTL Calibration Laboratory
Add: No. 11, Zhongguo Road, Zhongguo Road, Zhongguo Road, Zhongguo Road, Zhongguo Road
Tel: 86-10-1234567890 Fax: 86-10-1234567890
Email: info@ftl.com.cn Website: www.ftl.com.cn

Client: **World** Certificate No: **Z18-60462**

CALIBRATION CERTIFICATE

Object: **D2450V2-SN: 997**

Calibration Procedure(s): **FTL-211-003-01**
Calibration Procedures for dipole validation kits

Calibration date: **October 25, 2018**

This calibration Certificate documents the traceability to national standards, which realize the physical units of measurement(s). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the class secondary facility: microwave temperature(s): and humidity: 70%.

Calibration Equipment used (MUTU critical for calibration)

Primary Standards	Q#	Cal Date/Calibrated By/ Certificate No.	Scheduled Calibration
Power Meter: NRP2	150003	01-Nov-17 C.T.T.L. No. J17028103	Oct-18
Power sensor: NRP-25	150040	01-Nov-17 C.T.T.L. No. J17028103	Oct-18
Reference Probe EX3014	SN: 1514	27-Aug-18 FTL Calibration No. D23-714 Aug 18	Aug-19
DA64	SN: 1555	20-Aug-18 FTL Calibration No. D24-1555 Aug 18	Aug-19

Secondary Standards	Q#	Cal Date/Calibrated By/ Certificate No.	Scheduled Calibration
Signal Generator: E4300C	8918071453	23-Jan-18 C.T.T.L. No. J18010060	Jan-19
Network Analyzer: E5717C	8918071453	23-Jan-18 C.T.T.L. No. J18010060	Jan-19

Calibrated by: **Lin Hui** SAR Test Engineer
Reviewed by: **Li Hui** SAR Test Engineer
Approved by: **Qi Changyan** SAR Project Leader

Issued: October 25, 2018

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.

Certificate No: Z18-60462 Page: 1 of 4

[\[pdf\]](#) SAR Rating

Annex E8 DASY Calibration Certificate D2450V2 Reliance Communications LLC RC400L Orbic Speed Wireless router with LTE WCDMA WIFI 2ABGH 2ABGHRC400L rc400l

Annual validation for test lab. Appendix Annual validation for Test Lab. General calibration information Date 2019.10.22 Test Laboratory ShenZhen Morlab Communications Technology Co., Ltd. Antenna serial No. D2450V2-SN:997 Antenna Parameters with Head TSL Impedance, transformed to fee...

lang:en **score:13** filesize: 3.12 M page_count: 11 document date: 2020-05-06

FTL Calibration Laboratory
Add: No. 11, Zhongguo Road, Zhongguo Road, Zhongguo Road, Zhongguo Road, Zhongguo Road
Tel: 86-10-1234567890 Fax: 86-10-1234567890
Email: info@ftl.com.cn Website: www.ftl.com.cn

Client: **World** Certificate No: **Z18-60463**

CALIBRATION CERTIFICATE

Object: **D5GHzV2-SN: 1170**

Calibration Procedure(s): **FTL-211-003-01**
Calibration Procedures for dipole validation kits

Calibration date: **November 5, 2018**

This calibration Certificate documents the traceability to national standards, which realize the physical units of measurement(s). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the class secondary facility: microwave temperature(s): and humidity: 70%.

Calibration Equipment used (MUTU critical for calibration)

Primary Standards	Q#	Cal Date/Calibrated By/ Certificate No.	Scheduled Calibration
Power Meter: NRP2	150003	01-Nov-17 C.T.T.L. No. J17028103	Oct-18
Power sensor: NRP-25	150040	01-Nov-17 C.T.T.L. No. J17028103	Oct-18
Reference Probe EX3014	SN: 1514	27-Aug-18 FTL Calibration No. D23-714 Aug 18	Aug-19
DA64	SN: 1555	20-Aug-18 FTL Calibration No. D24-1555 Aug 18	Aug-19

Secondary Standards	Q#	Cal Date/Calibrated By/ Certificate No.	Scheduled Calibration
Signal Generator: E4300C	8918071453	23-Jan-18 C.T.T.L. No. J18010060	Jan-19
Network Analyzer: E5717C	8918071453	23-Jan-18 C.T.T.L. No. J18010060	Jan-19

Calibrated by: **Lin Hui** SAR Test Engineer
Reviewed by: **Li Hui** SAR Test Engineer
Approved by: **Qi Changyan** SAR Project Leader

Issued: November 5, 2018

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.

Certificate No: Z18-60463 Page: 1 of 4

[\[pdf\]](#) SAR Rating

Annex E9 DASY Calibration Certificate D5GHzV2 Reliance Communications LLC RC400L Orbic Speed Wireless router with LTE WCDMA WIFI 2ABGH 2ABGHRC400L rc400l

Annual validation for test lab. Appendix Annual validation for Test Lab. General calibration information Date 2019.10.09 Test Laboratory ShenZhen Morlab Communications Technology Co., Ltd. Antenna serial No. D1750V2-SN:1160 Antenna Parameters with Head TSL at 5250 MHz Impedance,...

lang:en **score:13** filesize: 5.28 M page_count: 19 document date: 2020-05-06

Client: **World** Certificate No: **Z18-60482**

CALIBRATION CERTIFICATE

Object: **D5GHzV2 - SN: 1170**

Calibration Procedure(s): **FF-219-003-01**
Calibration Procedures for static validation kits

Calibration date: **November 9, 2018**

This calibration Certificate documents the traceability to national standards, which realize the physical units of measurement(s). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature(s): and humidity:70%.

Calibration Equipment used (MUT) critical for calibration:

Primary Standards	U#	Cal Data(Calibrated by Certificate No.)	Scheduled Calibration
Power Meter: NRP2	107196	27-Aug-18 (CTTL No. J18020110)	Mar-19
Power sensor: NRP-251	100586	27-Aug-18 (CTTL No. J18020110)	Mar-19
Reference cable EX2014	SN: 7514	27-Aug-18 (SPFACNo. D24-7514_Aug18)	Aug-19
DA64	SN: 1055	20-Aug-18 (SPFACNo. D24-6-1055_Aug18)	Aug-19

Secondary Standards	U#	Cal Data(Calibrated by Certificate No.)	Scheduled Calibration
Signal Generator EX430C	MY10071402	23-Jan-19 (CTTL No. J18030040)	Jan-19
NetworkAnalyzer S917C	MY10110572	24-Jan-19 (CTTL No. J18030058)	Jan-19

Calibrated by: **Zhou Jing** SAR Test Engineer
Reviewed by: **Lin Hui** SAR Test Engineer
Approved by: **Qi Changyan** SAR Project Leader

Issued: November 9, 2018

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.

Certificate No: **Z18-60482** Page: 1 of 4

[pdf] SAR Rating

Annex E9 DASY Calibration Certificate D5GHzV2 Reliance Communications LLC RC400L Orbic Speed Wireless router with LTE WCDMA WIFI 2ABGH 2ABGHRC400L rc400l

Annual validation for test lab. Appendix Annual validation for Test Lab. General calibration information Date 2019.10.09 Test Laboratory ShenZhen Morlab

Communications Technology Co., Ltd. Antenna serial No. D1750V2-SN:1160 Antenna Parameters with Head TSL at 5250 MHz Impedance,...

lang:en score:13 filesize: 5.28 M page_count: 19 document date: 2020-05-06

Client: **World** Certificate No: **Z18-60482**

CALIBRATION CERTIFICATE

Object: **D2450V2 - SN: 855**

Calibration Procedure(s): **FF-219-003-01**
Calibration Procedures for static validation kits

Calibration date: **October 26, 2018**

This calibration Certificate documents the traceability to national standards, which realize the physical units of measurement(s). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature(s): and humidity:70%.

Calibration Equipment used (MUT) critical for calibration:

Primary Standards	U#	Cal Data(Calibrated by Certificate No.)	Scheduled Calibration
Power Meter: NRP2	107196	01-Nov-17 (CTTL No. J17020102)	Oct-18
Power sensor: NRP-25	100540	01-Nov-17 (CTTL No. J17020102)	Oct-18
Reference cable EX2014	SN: 7514	27-Aug-18 (SPFACNo. D24-7514_Aug18)	Aug-19
DA64	SN: 1055	20-Aug-18 (SPFACNo. D24-6-1055_Aug18)	Aug-19

Secondary Standards	U#	Cal Data(Calibrated by Certificate No.)	Scheduled Calibration
Signal Generator EX430C	MY10071403	23-Jan-19 (CTTL No. J18030040)	Jan-19
NetworkAnalyzer S917C	MY10110573	24-Jan-19 (CTTL No. J18030059)	Jan-19

Calibrated by: **Zhou Jing** SAR Test Engineer
Reviewed by: **Lin Hui** SAR Test Engineer
Approved by: **Qi Changyan** SAR Project Leader

Issued: October 26, 2018

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.

Certificate No: **Z18-60482** Page: 1 of 4

[pdf] SAR Rating

Annex E8 DASY Calibration Certificate D2450V2 Reliance Communications LLC RC400L Orbic Speed Wireless router with LTE WCDMA WIFI 2ABGH 2ABGHRC400L rc400l

Annual validation for test lab. Appendix Annual validation for Test Lab. General calibration information Date 2019.10.22 Test Laboratory ShenZhen Morlab

Communications Technology Co., Ltd. Antenna serial No. D2450V2-SN:997 Antenna Parameters with Head TSL Impedance, transformed to fee...

lang:en score:13 filesize: 3.12 M page_count: 11 document date: 2020-05-06

Client: **World** Certificate No: **Z18-60482**

CALIBRATION CERTIFICATE

Object: **D5GHzV2 - SN: 1170**

Calibration Procedure(s): **FF-219-003-01**
Calibration Procedures for static validation kits

Calibration date: **November 9, 2018**

This calibration Certificate documents the traceability to national standards, which realize the physical units of measurement(s). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature(s): and humidity:70%.

Calibration Equipment used (MUT) critical for calibration:

Primary Standards	U#	Cal Data(Calibrated by Certificate No.)	Scheduled Calibration
Power Meter: NRP2	107196	27-Aug-18 (CTTL No. J18020110)	Mar-19
Power sensor: NRP-251	100586	27-Aug-18 (CTTL No. J18020110)	Mar-19
Reference cable EX2014	SN: 7514	27-Aug-18 (SPFACNo. D24-7514_Aug18)	Aug-19
DA64	SN: 1055	20-Aug-18 (SPFACNo. D24-6-1055_Aug18)	Aug-19

Secondary Standards	U#	Cal Data(Calibrated by Certificate No.)	Scheduled Calibration
Signal Generator EX430C	MY10071402	23-Jan-19 (CTTL No. J18030040)	Jan-19
NetworkAnalyzer S917C	MY10110572	24-Jan-19 (CTTL No. J18030058)	Jan-19

Calibrated by: **Zhou Jing** SAR Test Engineer
Reviewed by: **Lin Hui** SAR Test Engineer
Approved by: **Qi Changyan** SAR Project Leader

Issued: November 9, 2018

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Certificate No: **Z18-60482** Page: 1 of 4

[pdf]

Annex E9 DASY Calibration Certificate D5GHzV2 Reliance Communications LLC RC400L Orbic Speed Wireless router with LTE WCDMA WIFI 2ABGH 2ABGHRC400L rc400l

... lang:en score:13 filesize: 5.28 M page_count: 19 document date: 2020-05-06




Client: **Morlab** Certificate No: **Z16-60462**

CALIBRATION CERTIFICATE

Object: **D2450V2-SM 805**
 Calibration Procedure(s): **FF-215-003-01**
 Calibration date: **October 26, 2019**

This calibration Certificate documents the traceability to national standards, which realize the physical units of measurement(s). The measurement and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the classed laboratory facility: environment temperature(23±0.2)°C and humidity<70%.

Calibration Equipment used (MATE critical for calibration)

Primary Standards	ID#	Cal Date/Calibrated by, Certificate No.	Scheduled Calibration
Power Meter	NRP2	102003 01-Nov-17 CCTL No. J16203185	Oct-18
Power sensor	NRP-25	100640 02-Nov-17 CCTL No. J17020105	Oct-18
Reference Probe EX30V4	SN 7514	27-Aug-18 SPPEAGNo. EX3-7514_Aug18	Aug-19
DCA4	SN 1555	20-Aug-18 SPPEAGNo. DCA4-1555_Aug18	Aug-19

Secondary Standards: **ES** Cal Date/Calibrated by, Certificate No. Scheduled Calibration
 Signal Generator E6430C: **MY16010073** 29-Jan-19 CCTL No. J18000562 Jan-19
 Network Analyzer E5071C: **MY16010073** 29-Jan-19 CCTL No. J18000562 Jan-19

Calibrated by: **Yao Jiong** SAR Test Engineer Signature: 
 Reviewed by: **Lin Hui** SAR Test Engineer
 Approved by: **Qi Changyan** SAR Project Leader

Issued: **October 28, 2019**
 This calibration certificate shall not be reproduced except in full without written approval of the laboratory.

Certificate No: **Z16-60462** Page: **1 of 1**

[pdf]

Annex E8 DASY Calibration Certificate D2450V2 Reliance Communications LLC RC400L Orbic Speed Wireless router with LTE WCDMA WIFI 2ABGH 2ABGHRC400L rc400l

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lang:en score:13 filesize: 3.12 M page_count: 11 document date: 2020-05-06




Client: **Morlab** Certificate No: **Z16-60463**

CALIBRATION CERTIFICATE

Object: **D5GHzV2-SM 1170**
 Calibration Procedure(s): **FF-215-003-01**
 Calibration date: **November 05, 2019**

This calibration Certificate documents the traceability to national standards, which realize the physical units of measurement(s). The measurement and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the classed laboratory facility: environment temperature(23±0.2)°C and humidity<70%.

Calibration Equipment used (MATE critical for calibration)

Primary Standards	ID#	Cal Date/Calibrated by, Certificate No.	Scheduled Calibration
Power Meter	NRP2	102196 07-Mar-18 CCTL No. J16202100	Mar-19
Power sensor	NRP-25	102006 07-Mar-18 CCTL No. J16202100	Mar-19
Reference Probe EX30V4	SN 7514	27-Aug-18 SPPEAGNo. EX3-7514_Aug18	Aug-19
DCA4	SN 1555	20-Aug-18 SPPEAGNo. DCA4-1555_Aug18	Aug-19

Secondary Standards: **ES** Cal Date/Calibrated by, Certificate No. Scheduled Calibration
 Signal Generator E6430C: **MY16010073** 29-Jan-19 CCTL No. J18000562 Jan-19
 Network Analyzer E5071C: **MY16010073** 29-Jan-19 CCTL No. J18000562 Jan-19

Calibrated by: **Yao Jiong** SAR Test Engineer Signature: 
 Reviewed by: **Lin Hui** SAR Test Engineer
 Approved by: **Qi Changyan** SAR Project Leader

Issued: **November 05, 2019**
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Certificate No: **Z16-60463** Page: **1 of 1**

[pdf] SAR Rating

Annex E9 DASY Calibration Certificate D5GHzV2 Reliance Communications LLC RC400L Orbic Speed Wireless router with LTE WCDMA WIFI 2ABGH 2ABGHRC400L rc400l

Annual validation for test lab. Appendix Annual validation for Test Lab. General calibration information Date 2019.10.09 Test Laboratory ShenZhen Morlab

Communications Technology Co., Ltd. Antenna serial No. D1750V2-SN:1160 Antenna Parameters with Head TSL at 5250 MHz Impedance,...

lang:en score:13 filesize: 5.28 M page_count: 19 document date: 2020-05-06




Client: **Morlab** Certificate No: **Z19-00228**

CALIBRATION CERTIFICATE

Object: **ES3DV3-SN 3154**
 Calibration Procedure(s): **FF-215-004-01**
 Calibration date: **July 16, 2019**

This calibration Certificate documents the traceability to national standards, which realize the physical units of measurement(s). The measurement and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the classed laboratory facility: environment temperature(23±0.2)°C and humidity<70%.

Calibration Equipment used (MATE critical for calibration)

Primary Standards	ID#	Cal Date/Calibrated by, Certificate No.	Scheduled Calibration
Power Meter	NRP2	101919 18-Jun-19 CCTL No. J16203155	Jun-20
Power sensor	NRP-25	101547 18-Jun-19 CCTL No. J16203155	Jun-20
Reference Probe EX30V4	SN 7514	27-Aug-18 SPPEAGNo. EX3-7514_Aug18	Aug-19
DCA4	SN 1555	20-Aug-18 SPPEAGNo. DCA4-1555_Aug18	Aug-19

Secondary Standards: **ES** Cal Date/Calibrated by, Certificate No. Scheduled Calibration
 Signal Generator E6430C: **MY16010073** 29-Jan-19 CCTL No. J18000562 Jan-19
 Network Analyzer E5071C: **MY16010073** 29-Jan-19 CCTL No. J18000562 Jan-19

Calibrated by: **Yu Zongming** SAR Test Engineer Signature: 
 Reviewed by: **Lin Hui** SAR Test Engineer
 Approved by: **Qi Changyan** SAR Project Leader

Issued: **July 16, 2019**
 This calibration certificate shall not be reproduced except in full without written approval of the laboratory.

Certificate No: **Z19-00228** Page: **1 of 1**

[pdf]

Annex E2 DASY Calibration Certificate ES3DV3 SN3154 Reliance Communications LLC RC400L Orbic Speed Wireless router with LTE WCDMA WIFI 2ABGH 2ABGHRC400L rc400l

...

lang:en score:12 filesize: 2.78 M page_count: 11 document date: 2020-05-06




Client: **INNORAVE** Certificate No: **Z19-40223**

CALIBRATION CERTIFICATE

Object: **D4E4 - SN 871**

Calibration Procedure(s): **FF Z19-4022-01 Calibration Procedure for the Data Acquisition Electronics (DAEW)**

Calibration date: **June 27, 2019**

This calibration Certificate documents the traceability to national standards, which realize the physical units of measurement(s). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature(s): °C and humidity: 70%.

Calibration Equipment used (MATE critical for calibration):

Primary Standards	ID #	Cal Date/Calibrated by: Certificate No.	Scheduled Calibration
Process Calibrator 753	1971019	24-Jun-19 (CTTL No. J19X05126)	Jun-20

Issued: June 29, 2019

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.

Certificate No: Z19-40223 Page 1 of 1

[pdf]

Annex E3 DASY Calibration Certificate DAE4 SN871 Reliance Communications LLC RC400L Orbic Speed Wireless router with LTE WCDMA WIFI 2ABGH 2ABGHRC400L rc400l

...

lang:en score:12 filesize: 623.29 K page_count: 3 document date: 2020-05-06




Client: **INNORAVE** Certificate No: **Z19-40223**

CALIBRATION CERTIFICATE

Object: **D4E4 - SN 871**

Calibration Procedure(s): **FF Z19-4022-01 Calibration Procedure for the Data Acquisition Electronics (DAEW)**

Calibration date: **June 27, 2019**

This calibration Certificate documents the traceability to national standards, which realize the physical units of measurement(s). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature(s): °C and humidity: 70%.

Calibration Equipment used (MATE critical for calibration):

Primary Standards	ID #	Cal Date/Calibrated by: Certificate No.	Scheduled Calibration
Process Calibrator 753	1971019	24-Jun-19 (CTTL No. J19X05126)	Jun-20

Issued: June 29, 2019

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Certificate No: Z19-40223 Page 1 of 1

[pdf]

Annex E3 DASY Calibration Certificate DAE4 SN871 Reliance Communications LLC RC400L Orbic Speed Wireless router with LTE WCDMA WIFI 2ABGH 2ABGHRC400L rc400l

...

lang:en score:12 filesize: 623.29 K page_count: 3 document date: 2020-05-06




Client: **INNORAVE** Certificate No: **Z19-40223**

CALIBRATION CERTIFICATE

Object: **D4E4 - SN 871**

Calibration Procedure(s): **FF Z19-4022-01 Calibration Procedure for the Data Acquisition Electronics (DAEW)**

Calibration date: **June 27, 2019**

This calibration Certificate documents the traceability to national standards, which realize the physical units of measurement(s). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature(s): °C and humidity: 70%.

Calibration Equipment used (MATE critical for calibration):

Primary Standards	ID #	Cal Date/Calibrated by: Certificate No.	Scheduled Calibration
Process Calibrator 753	1971019	24-Jun-19 (CTTL No. J19X05126)	Jun-20

Issued: June 29, 2019

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Certificate No: Z19-40223 Page 1 of 1

[pdf]

Annex E3 DASY Calibration Certificate DAE4 SN871 Reliance Communications LLC RC400L Orbic Speed Wireless router with LTE WCDMA WIFI 2ABGH 2ABGHRC400L rc400l

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lang:en score:12 filesize: 623.29 K page_count: 3 document date: 2020-05-06



[pdf]

Annex E3 DASY Calibration Certificate DAE4 SN871 Reliance Communications LLC RC400L Orbic Speed Wireless router with LTE WCDMA WIFI 2ABGH 2ABGHRC400L rc400l

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lang:en score:12 filesize: 624.25 K page_count: 3 document date: 2020-05-06

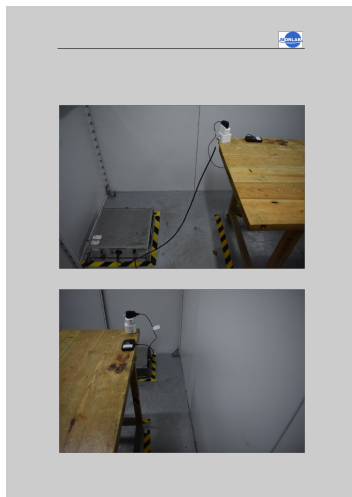


[pdf]

Annex E2 DASY Calibration Certificate ES3DV3 SN3154 Reliance Communications LLC RC400L Orbic Speed Wireless router with LTE WCDMA WIFI 2ABGH 2ABGHRC400L rc400l

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lang:en score:12 filesize: 2.78 M page_count: 11 document date: 2020-05-06



[pdf] Product Photos

14 New User Test Setup Photos DTS Reliance Communications LLC RC400L Orbic Speed Wireless router with LTE WCDMA WIFI 2ABGH 2ABGHRC400L rc400l

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lang:en score:12 filesize: 1.21 M page_count: 3 document date: 2020-05-06

Client: **Metlab** Certificate No: **Z19-0228**

CALIBRATION CERTIFICATE

Object: **ES3DV3-SN3154**

Calibration Procedure(s): **FF-Z19-004-01**
Calibration Procedures for Diode/Static E-Sp/ Probes

Calibration date: **July 16, 2019**

This calibration Certificate documents the traceability to national standards, which realize the physical units of measurements(SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature(23±1)°C and humidity<70%.

Calibration Equipment used (MSTE critical for calibration)

Primary Standards	ID #	Cal Date/Calibrated by: Certificate No.)	Scheduled Calibration
Power Meter	NSP-2	10-1919 18-Jun-19 (CTTL No. J19001120)	Jun-20
Power sensor	NSP-2M	10-1547 18-Jun-19 (CTTL No. J19001120)	Jun-20
Power sensor	NSP-2M	10-1548 18-Jun-19 (CTTL No. J19001120)	Jun-20
Reference Load/Attenuator	18600N-100B	09-Feb-18 (CTTL No. J19001133)	Feb-20
Reference Load/Attenuator	18600N-200B	09-Feb-18 (CTTL No. J19001133)	Feb-20
Reference Probe EX3DV4	SN 3611	31-Jan-18 (SPS/AG/No. Z03-3611_Any18)	Jan-20
DAE4	SN 1231	06-Feb-18 (SPS/AG/No. DA24-1231_Feb18)	Feb-20

Secondary Standards

ID #	Cal Date/Calibrated by: Certificate No.)	Scheduled Calibration
Signal Generator/AG/CTTL	ES3DV3/0805 18-Jun-19 (CTTL No. J19001121)	Jun-20
Network Analyzer/CA/CTTL	MY160110873 24-Jan-19 (CTTL No. J19000547)	Jan-20

Name: **Furman**

Calibrated by: **Yu Zongyong** SAR Test Engineer

Reviewed by: **Lia Hiao** SAR Test Engineer

Approved by: **Qi Dianyan** SAR Project Leader

Issued: **July 16, 2019**

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Certificate No: Z19-0228 Page 1 of 1.

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Annex E2 DASY Calibration Certificate ES3DV3 SN3154 Reliance Communications LLC RC400L Orbic Speed Wireless router with LTE WCDMA WIFI 2ABGH 2ABGHRC400L rc400I

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lang:en score:12 filesize: 2.78 M page_count: 11 document date: 2020-05-06

Client: **Metlab** Certificate No: **Z19-0228**

CALIBRATION CERTIFICATE

Object: **ES3DV3-SN3154**

Calibration Procedure(s): **FF-Z19-004-01**
Calibration Procedures for Diode/Static E-Sp/ Probes

Calibration date: **July 16, 2019**

This calibration Certificate documents the traceability to national standards, which realize the physical units of measurements(SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature(23±1)°C and humidity<70%.

Calibration Equipment used (MSTE critical for calibration)

Primary Standards	ID #	Cal Date/Calibrated by: Certificate No.)	Scheduled Calibration
Power Meter	NSP-2	10-1919 18-Jun-19 (CTTL No. J19001120)	Jun-20
Power sensor	NSP-2M	10-1547 18-Jun-19 (CTTL No. J19001120)	Jun-20
Power sensor	NSP-2M	10-1548 18-Jun-19 (CTTL No. J19001120)	Jun-20
Reference Load/Attenuator	18600N-100B	09-Feb-18 (CTTL No. J19001133)	Feb-20
Reference Load/Attenuator	18600N-200B	09-Feb-18 (CTTL No. J19001133)	Feb-20
Reference Probe EX3DV4	SN 3611	31-Jan-18 (SPS/AG/No. Z03-3611_Any18)	Jan-20
DAE4	SN 1231	06-Feb-18 (SPS/AG/No. DA24-1231_Feb18)	Feb-20

Secondary Standards

ID #	Cal Date/Calibrated by: Certificate No.)	Scheduled Calibration
Signal Generator/AG/CTTL	ES3DV3/0805 18-Jun-19 (CTTL No. J19001121)	Jun-20
Network Analyzer/CA/CTTL	MY160110873 24-Jan-19 (CTTL No. J19000547)	Jan-20

Name: **Furman**

Calibrated by: **Yu Zongyong** SAR Test Engineer

Reviewed by: **Lia Hiao** SAR Test Engineer

Approved by: **Qi Dianyan** SAR Project Leader

Issued: **July 16, 2019**

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.

Certificate No: Z19-0228 Page 1 of 1.

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Annex E2 DASY Calibration Certificate ES3DV3 SN3154 Reliance Communications LLC RC400L Orbic Speed Wireless router with LTE WCDMA WIFI 2ABGH 2ABGHRC400L rc400I

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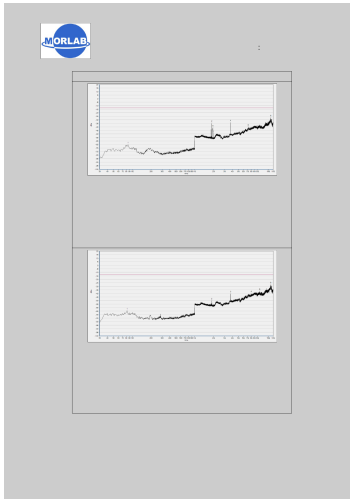


[pdf] Test Report

CE RF TEST REPORT X Microsoft SZ20040157W02 Reliance RC400L LTE FCC 4 Communications LLC Orbic Speed Wireless router with WCDMA WIFI 2ABGH 2ABGHRC400L rc400I

Band 66/ 5MHz/ Low CH/QPSK REPORT No.SZ20040157W02 Band 66/ 5MHz/ Low CH/16QAM Band 66/ 5MHz/Mid CH/QPSK Band 66/ 5MHz/Mid CH/16QAM Band 66/ 5MHz/High CH/QPSK Band 66/ 5MHz/High CH/16QAM MORLAB SHENZHEN MORLAB COMMUNICATIONS TECHNOLOGY Co., Ltd. FL1-3, Building A, FeiYang Science Park, No.8 L...

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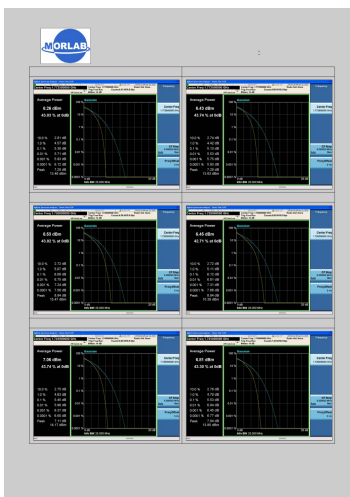
[\[pdf\]](#) Test Report

CE RF TEST REPORT X Microsoft SZ20040157W02 Reliance RC400L LTE FCC 5 Communications LLC
 Orbic Speed Wireless router with WCDMA WIFI 2ABGH 2ABGHRC400L rc400l
 REPORT No.SZ20040157W02 LTE Band 2 20MHz BW, Mid Channel, QPSK No. Fre.
 MHz 1 85.290 2 1870.933 3 1951.467 4 3742.680 5 7176.880 6 16537.000 Peak -65.76 -
 35.39 -42.18 -34.49 -40.70 -27.60 Limit PK -13.00 -13.00 -13.00 -13.00 -13.00 -13.00
 Antenna Horizontal Horizontal Horizontal Ho...
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[\[pdf\]](#) Test Report

CE RF TEST REPORT X Microsoft SZ20040157W02 Reliance RC400L LTE FCC 2 Communications LLC
 Orbic Speed Wireless router with WCDMA WIFI 2ABGH 2ABGHRC400L rc400l
 Band13 / 10MHz / Low CH / QPSK REPORT No.SZ20040157W02 Band13 / 10MHz /
 Low CH / 16QAM Band13 / 10MHz / Mid CH / QPSK Band13 / 10MHz / Mid CH /
 16QAM Band13 / 10MHz / High CH / QPSK Band13 / 10MHz / High CH / 16QAM
 MORLAB SHENZHEN MORLAB COMMUNICATIONS TECHNOLOGY Co., Ltd. FL1-3,
 Building A, ...
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[\[pdf\]](#) Test Report

CE RF TEST REPORT X Microsoft SZ20040157W02 Reliance RC400L LTE FCC 3 Communications LLC
 Orbic Speed Wireless router with WCDMA WIFI 2ABGH 2ABGHRC400L rc400l
 Band 66/ 15MHz/High CH/QPSK REPORT No.SZ20040157W02 Band 66/ 15MHz/High
 CH/16QAM Band 66/ 20MHz/ Low CH/QPSK Band 66/ 20MHz/ Low CH/16QAM Band
 66/ 20MHz/Mid CH/QPSK Band 66/ 20MHz/Mid CH/16QAM MORLAB SHENZHEN
 MORLAB COMMUNICATIONS TECHNOLOGY Co., Ltd. FL1-3, Building A, FeiYang
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