

# Windows USB Driver(Q) MBIM Installation Guide

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# About the Document

## Revision History

Version	Date	Author	Description
1.0	2019-03-18	Isaac WANG	Initial
1.1	2019-12-02	Isaac WANG	<ol style="list-style-type: none"><li>1. Added the applicable modules such as AG15, AG520R, BG95, EM05, EM18, and EM20 (Table 1).</li><li>2. Modified descriptions of installation and uninstallation steps.</li></ol>
2.0	2024-04-30	Bruce LI	<ol style="list-style-type: none"><li>1. Added applicable modules AG35-CEN, EG21-G, EG21-GL, EG25-G, EG25-GL, EG800Q series, EG915Q-NA, EG916Q-GL, EM05 series, EG060K series, EG065K series, EG120K series, EG18 series, EG512R-EA, EM060K series, EM120K-GL, EM120R-GL, EM121R-GL, EM160R-GL, RG500Q series, RG501Q-EU, RG502Q series, RG520F series, RG520N series, RG525F-NA, RG530F series, RM500Q series, RM502Q-AE, RM505Q-AE, RM510Q-GL, RM520N series, RM521F-GL, and RM530N-GL.</li><li>2. Deleted AG35 series and BG96 series according to Quectel's product marketing strategies.</li><li>3. Deleted the EOL product EC20 R2.0.</li><li>4. Updated EC20 R2.1, EC21, and EC25 modules to EC20-CE, EC21 series and EC25 series modules.</li><li>5. Updated the driver name.</li><li>6. Deleted information on "Reconfiguring Net Port Protocol".</li><li>7. Updated the Windows operating systems supported by the driver (Chapter 1).</li><li>8. Updated the tool of testing driver installation from QNavigator to QCOM (Chapter 2.4).</li><li>9. Added references (Chapter 4).</li></ol>

## Contents

About the Document.....	3
Contents .....	4
Table Index .....	5
Figure Index .....	6
<b>1 Introduction .....</b>	<b>7</b>
1.1. Applicable Modules .....	7
<b>2 Installation of USB MBIM Driver .....</b>	<b>8</b>
2.1. Preparation.....	8
2.2. Installation Procedures .....	9
2.3. Check Installation Result .....	12
2.4. Test.....	13
<b>3 Uninstallation of USB MBIM Driver .....</b>	<b>14</b>
3.1. Uninstallation Procedures .....	14
<b>4 Appendix References .....</b>	<b>18</b>

## Table Index

Table 1: Applicable Modules.....	7
Table 2: Related Document.....	18
Table 3: Terms and Abbreviations .....	18

## Figure Index

Figure 1: "Device Manager" Interface of Windows System Without Quectel USB Driver Installed .....	8
Figure 2: Preparing to Install .....	9
Figure 3: Change Destination Location.....	10
Figure 4: Default Destination Location.....	10
Figure 5: Copying Files .....	11
Figure 6: Automatic Installation .....	11
Figure 7: Complete Installation .....	12
Figure 8: "Device Manager" Interface with Driver Successfully Installed .....	12
Figure 9: Test Module via QCOM (Taking RG520F-EB as an Example).....	13
Figure 10: Uninstall USB MBIM Driver.....	14
Figure 11: Check Uninstallation Setting .....	15
Figure 12: Confirm Uninstallation.....	15
Figure 13: Automatic Uninstallation .....	15
Figure 14: Remove Installation Files.....	16
Figure 15: Complete Uninstallation .....	16
Figure 16: Check USB MBIM Driver Uninstallation Result.....	17

# 1 Introduction

Quectel provides a USB MBIM driver installation package (*Quectel\_Windows\_USB\_Driver(Q)\_MBIM*), which supports Windows 10/11 operating systems. This document takes the Windows 10 system as an example to introduce how to install and uninstall the USB MBIM driver for Quectel modules on Windows operating systems.

## 1.1. Applicable Modules

**Table 1: Applicable Modules**

Product Line	Module
LTE Standard	AG35-CEN, EC20-CE, EC21 Series, EC25 Series, EG21-G, EG21-GL, EG25-G, EG25-GL, EG91 Series, EG95 Series, EG800Q Series, EG915Q-NA, EG916Q-GL, EM05 Series
LTE-A	EG06 Series, EG060K Series, EG065K Series, EG12 Series, EG120K Series, EG18 Series, EG512R-EA, EM06 Series, EM060K Series, EM120K-GL, EM120R-GL, EM121R-GL, EM160R-GL, EP06 Series, EM12-G
5G	RG500Q Series, RG501Q-EU, RG502Q Series, RG520F Series, RG520N Series, RG525F-NA, RG530F Series, RM500Q Series, RM502Q-AE, RM505Q-AE, RM510Q-GL, RM520N Series, RM521F-GL, RM530N-GL

## 2 Installation of USB MBIM Driver

This chapter describes how to install a USB MBIM driver for Quectel modules with the provided installation package.

### 2.1. Preparation

Please complete the following preparations before installation.

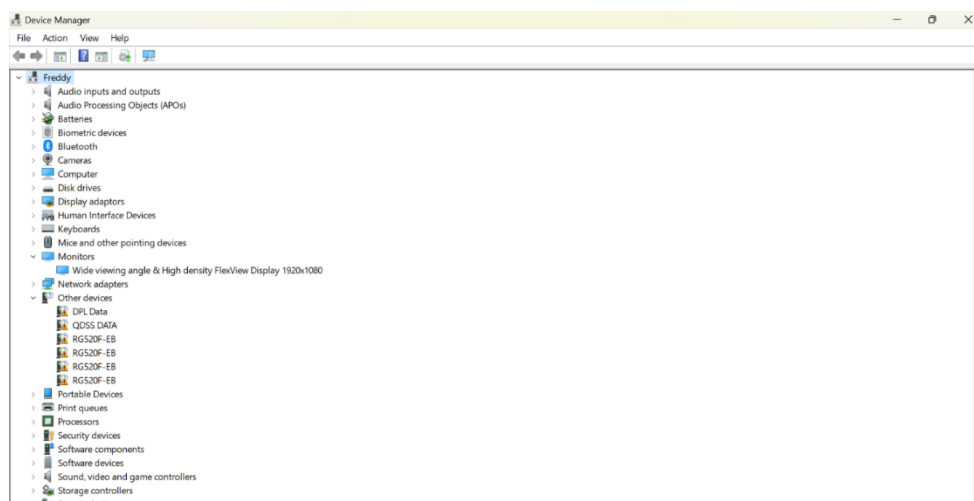
**Step 1:** Obtain the latest installation package from Quectel Technical Support.

**Step 2:** Connect the device or EVB equipped with the module to the PC through a USB cable.

**Step 3:** Power on the module.

If you have never installed any Quectel USB driver on your system before, there will be a prompt indicating that the drivers of the new devices need to be updated. Please ignore the prompt and begin to install the USB MBIM driver according to the procedures in **Chapter 2.2**.

The figure below shows the "Device Manager" interface of the Windows system on which Quectel drivers have never been installed.



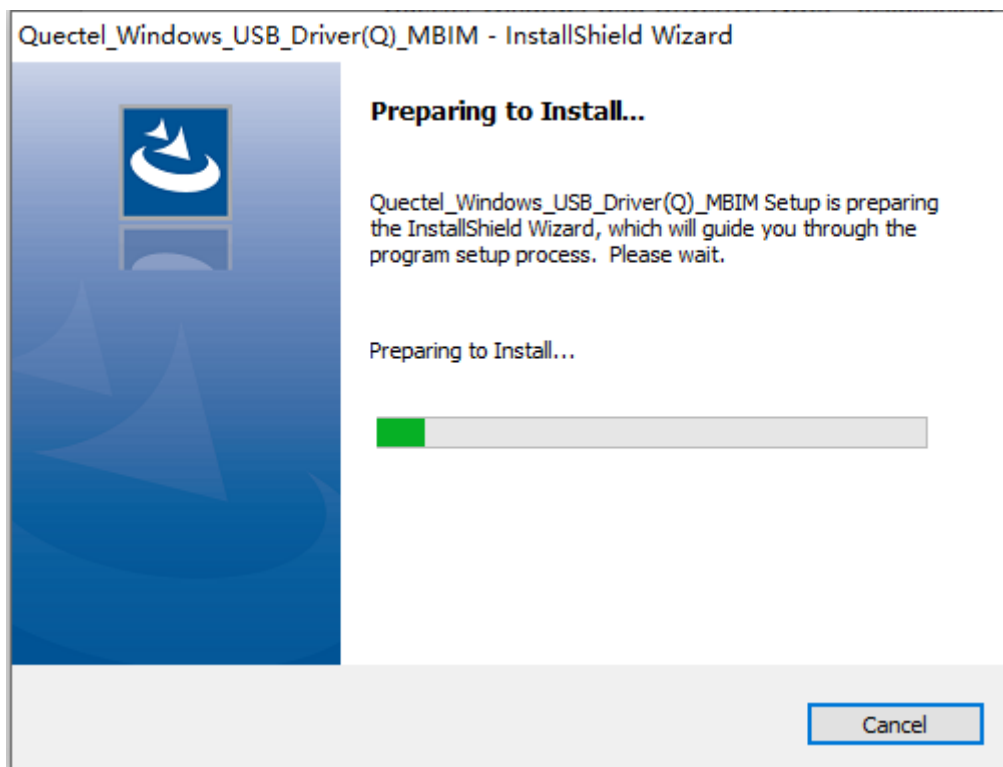
**Figure 1: "Device Manager" Interface of Windows System Without Quectel USB Driver Installed**

## 2.2. Installation Procedures

This chapter takes the installation of *Quectel\_Windows\_USB\_Driver(Q)\_MBIM\_V1.3* as an example, and the detailed procedures are as below.

### Step 1: Check Installation Setting

Double click the *setup.exe* in the installation package to enter the "Preparing to Install" interface.

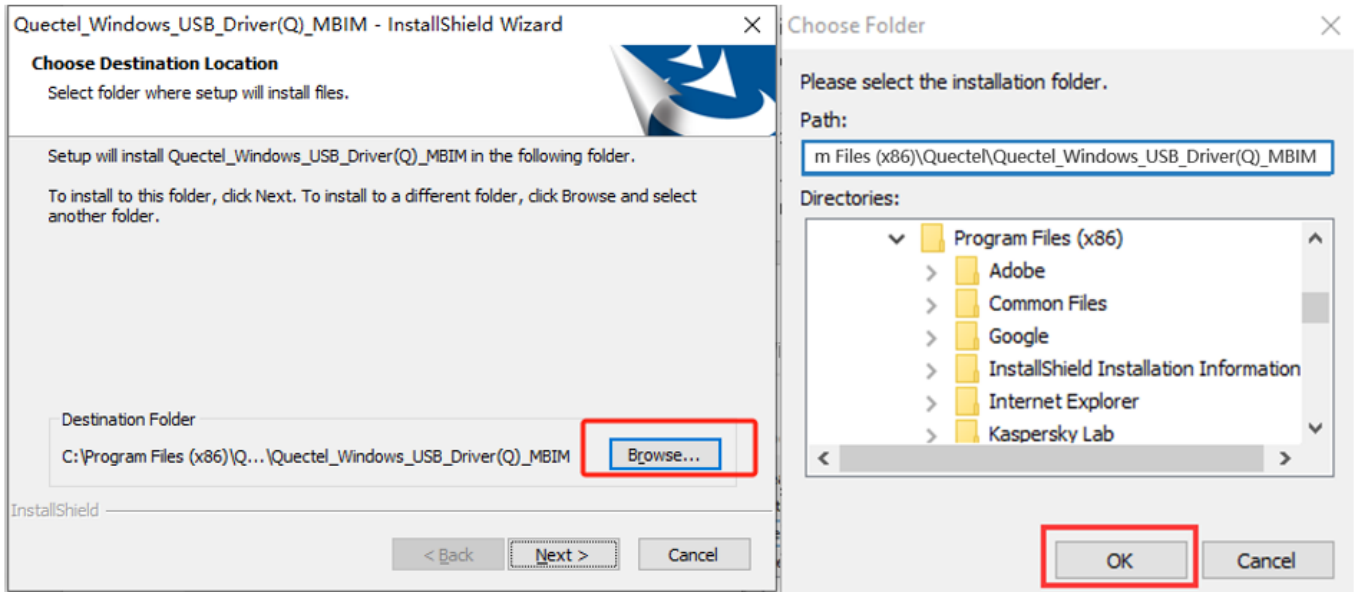


**Figure 2: Preparing to Install**

After the InstallShield Wizard is ready, the "Choose Destination Location" interface will pop up.

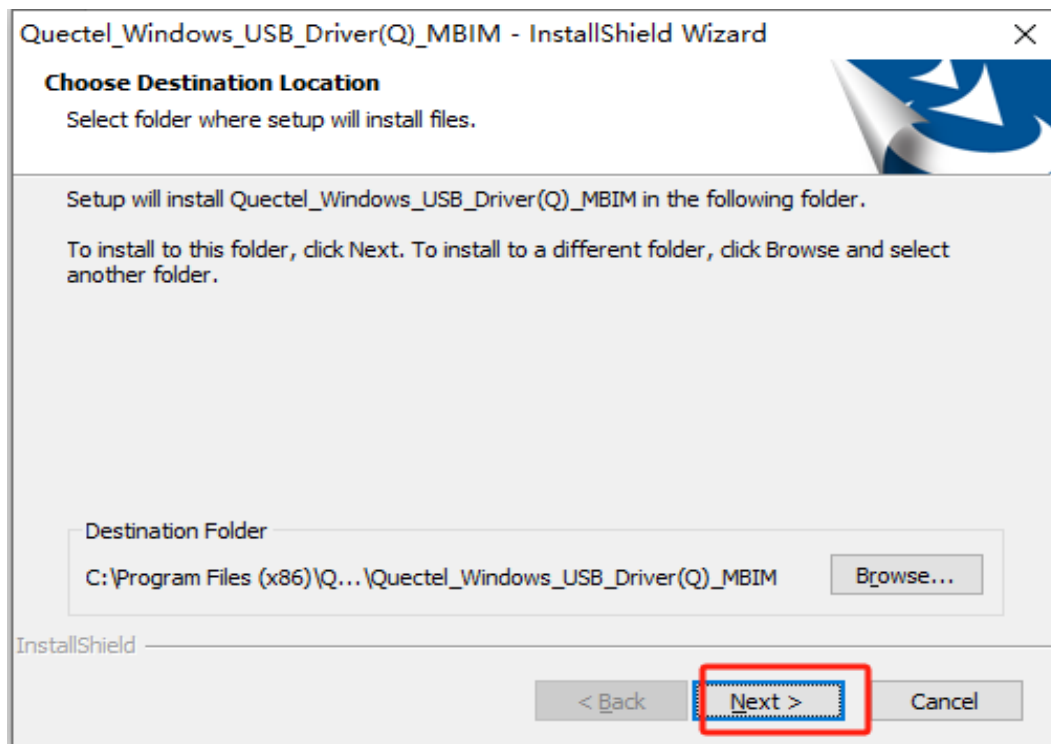
### Step 2: Choose Destination Location

If you want to change the location for USB MBIM driver installation, click "**Browse...**" to enter the "Choose Folder" interface. You can select the destination location and then click "**OK**" to save the configuration. The interface returns to the "Choose Destination Location" interface and you can click "**Next >**" to continue the installation.



**Figure 3: Change Destination Location**

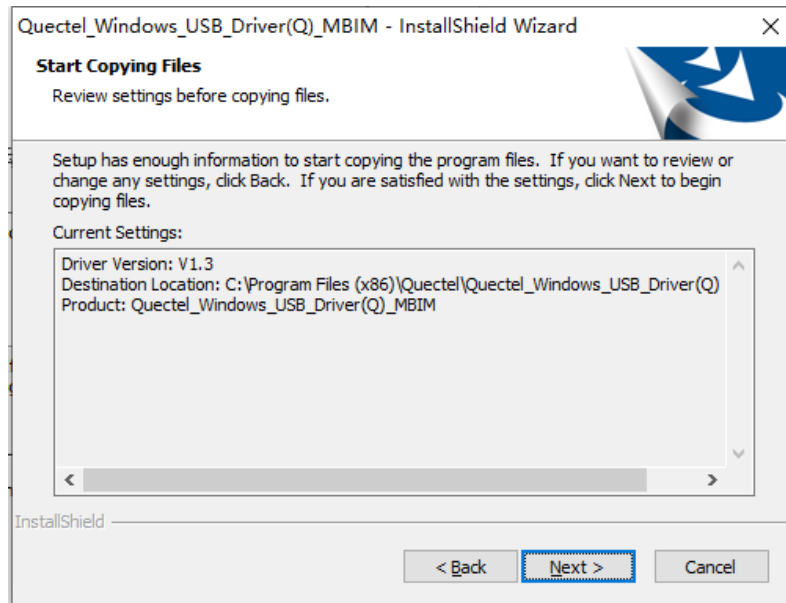
If you choose the default location for USB MBIM driver installation, you can click "**Next >**" directly to continue the installation..



**Figure 4: Default Destination Location**

### Step 3: Copy Driver Files Needed for Installation

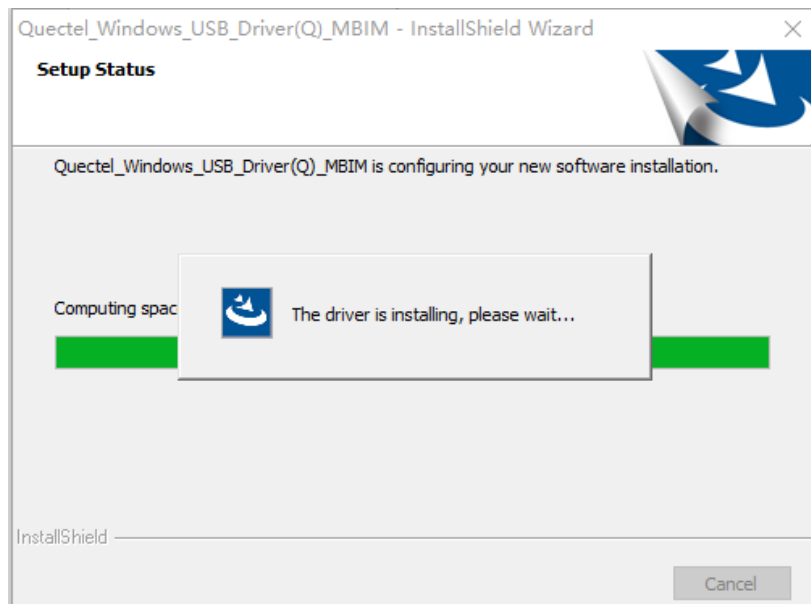
When the following interface is displayed, please click "**Next >**" to begin copying files.



**Figure 5: Copying Files**

#### **Step 4: Automatic Installation**

Driver installation automatically starts after file copying completes. It may take some time to install the USB MBIM driver, please wait patiently for the process to complete.



**Figure 6: Automatic Installation**

## Step 5: Complete Installation

When the following interface is displayed, it indicates a successful driver installation. Click **"Finish"** to complete the installation.

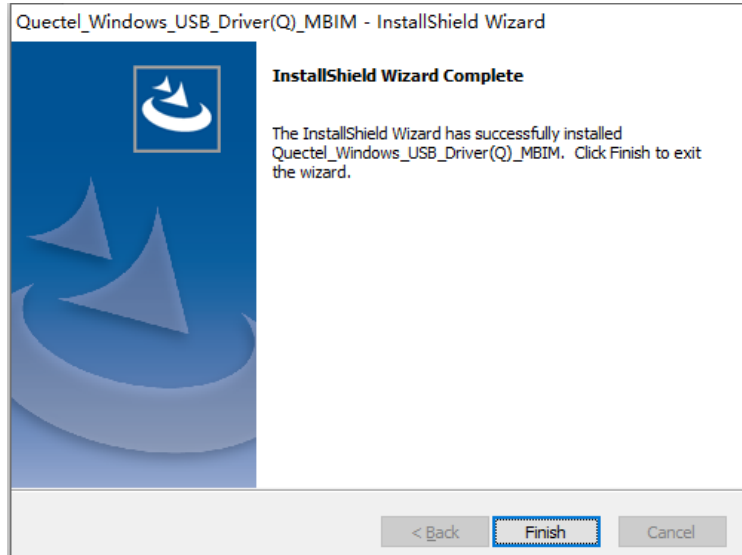


Figure 7: Complete Installation

## 2.3. Check Installation Result

You can check the installation result through "Computer Management" → "Device Manager". The "Device Manager" interface after a successful driver installation is shown below.

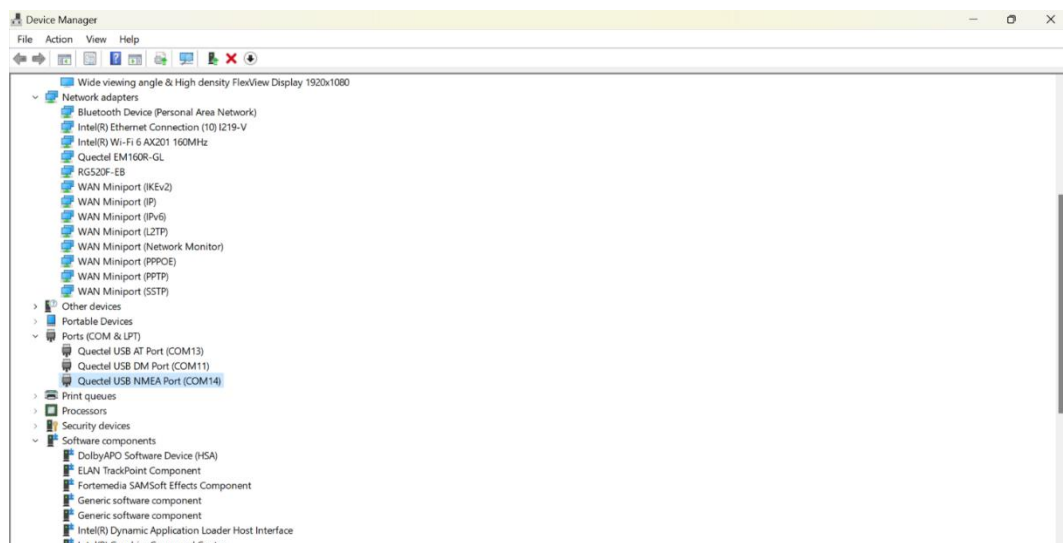


Figure 8: "Device Manager" Interface with Driver Successfully Installed

## 2.4. Test

After the USB MBIM driver has been installed, you can test whether the driver works normally via QCOM. For detailed steps, see [document \[1\]](#). For details of QCOM, contact Quectel Technical Support.

About

COM Port Setting

COM Port: 106 Baudrate: 115200 StopBits: 1 Parity: None

ByteSize: 8 Flow Control: No Ctrl Flow

Close Port

[2024-03-14\_15:54:04:875]  
[2024-03-14\_15:54:04:875]+CFUN: 1  
[2024-03-14\_15:54:04:875]  
[2024-03-14\_15:54:08:251]OK  
[2024-03-14\_15:54:08:251]  
[2024-03-14\_15:54:08:251]+QCFG: "usbnet",2  
[2024-03-14\_15:54:08:251]  
[2024-03-14\_15:54:08:251]OK  
[2024-03-14\_15:54:13:579]  
[2024-03-14\_15:54:13:579]Quectel  
[2024-03-14\_15:54:13:579]RG520F-EB  
[2024-03-14\_15:54:13:579]Revision: RG520FEBDDR05A02M8G  
[2024-03-14\_15:54:13:579]  
[2024-03-14\_15:54:13:579]OK

[2024-03-14\_15:54:03:866] Open COM Port Success  
[2024-03-14\_15:54:03:869] DCD:0 CTS:1 RI:1

Operation

Clear Information ☒ DTR ☒ RTS ☐ Show\r\n ☒ Show Time

Input String: ☐ HEX String ☐ Show In HEX ☒ Send With Enter

Input String:  Send Command

Select File:  Send File

☐ Save Log

Command List

☐ Choose All Commands HEX ☐ Enter Delay(mS)

<input type="checkbox"/> 1: at+qmap="mpdn_rule"	<input type="checkbox"/> <input checked="" type="checkbox"/>	1	
<input type="checkbox"/> 2: at+qmap="mpdn_rule",0	<input type="checkbox"/> <input checked="" type="checkbox"/>	2	
<input type="checkbox"/> 3: at+qmap="mpdn_rule",0,1,0,1,1,"78:2B:CB:E"	<input type="checkbox"/> <input checked="" type="checkbox"/>	3	
<input type="checkbox"/> 4: AT+CFUN=1,1	<input type="checkbox"/> <input checked="" type="checkbox"/>	4	
<input type="checkbox"/> 5: AT+CFUN?	<input type="checkbox"/> <input checked="" type="checkbox"/>	5	
<input type="checkbox"/> 6: at+qversion	<input type="checkbox"/> <input checked="" type="checkbox"/>	6	
<input type="checkbox"/> 7: at+cfun=0	<input type="checkbox"/> <input checked="" type="checkbox"/>	7	
<input type="checkbox"/> 8: at+qcfg="usbnet"	<input type="checkbox"/> <input checked="" type="checkbox"/>	8	
<input type="checkbox"/> 9: at+qcfg="usbnet",2	<input type="checkbox"/> <input checked="" type="checkbox"/>	9	
<input type="checkbox"/> 10: ati	<input type="checkbox"/> <input checked="" type="checkbox"/>	10	
<input type="checkbox"/> 11: AT+QUIMSL0T?	<input type="checkbox"/> <input checked="" type="checkbox"/>	11	
<input type="checkbox"/> 12: at+cgnr	<input type="checkbox"/> <input checked="" type="checkbox"/>	12	
<input type="checkbox"/> 13: at+csub	<input type="checkbox"/> <input checked="" type="checkbox"/>	13	
<input type="checkbox"/> 14: at+qcfg="fcc_enable",0	<input type="checkbox"/> <input checked="" type="checkbox"/>	14	
<input type="checkbox"/> 15: at+QCFG="usbnet"	<input type="checkbox"/> <input checked="" type="checkbox"/>	15	
<input type="checkbox"/> 16: at+qcfg="sarcfg","lte",5	<input type="checkbox"/> <input checked="" type="checkbox"/>	16	
<input type="checkbox"/> 17: at+qcfg="sarcfg","lte",240,10,0,5	<input type="checkbox"/> <input checked="" type="checkbox"/>	17	
<input type="checkbox"/> 18: AT+QCFG="ModemRstLevel",1	<input type="checkbox"/> <input checked="" type="checkbox"/>	18	
<input type="checkbox"/> 19: at+qtest="dump",1	<input type="checkbox"/> <input checked="" type="checkbox"/>	19	
<input type="checkbox"/> 20: at+cfun?	<input type="checkbox"/> <input checked="" type="checkbox"/>	20	
<input type="checkbox"/> 21: at+qeng="servingcell"	<input type="checkbox"/> <input checked="" type="checkbox"/>	21	
<input type="checkbox"/> 22: AT+QCFG="FCC_ENABLE",0	<input type="checkbox"/> <input checked="" type="checkbox"/>	22	
<input type="checkbox"/> 23: at+qcfg="usbcfg",0x2C7C,0x0801,1,1,1,1,1,1	<input type="checkbox"/> <input checked="" type="checkbox"/>	23	
<input type="checkbox"/> 24: at+qcfg="usbcfg"	<input type="checkbox"/> <input checked="" type="checkbox"/>	24	
<input type="checkbox"/> 25:	<input type="checkbox"/> <input checked="" type="checkbox"/>	25	
<input type="checkbox"/> 26:	<input type="checkbox"/> <input checked="" type="checkbox"/>	26	
<input type="checkbox"/> 27:	<input type="checkbox"/> <input checked="" type="checkbox"/>	27	
<input type="checkbox"/> 28:	<input type="checkbox"/> <input checked="" type="checkbox"/>	28	
<input type="checkbox"/> 29:	<input type="checkbox"/> <input checked="" type="checkbox"/>	29	

Load Test Script Clear All Commands Run Times: 10 Delay Time(mS): 1000

Save As Script Run Stop

Figure 9: Test Module via QCOM (Taking RG520F-EB as an Example)

## 3 Uninstallation of USB MBIM Driver

This chapter introduces how to uninstall the USB MBIM driver by uninstalling or changing the program on the "Control Panel". Meanwhile, you can also uninstall the driver by re-operating the installation package, but it will not be introduced in this document.

### 3.1. Uninstallation Procedures

#### Step 1: Select Driver

Open the "Control Panel", click to enter "Uninstall or change a program" and select the installed MBIM driver, then click "**Uninstall**", as shown in the figure below.

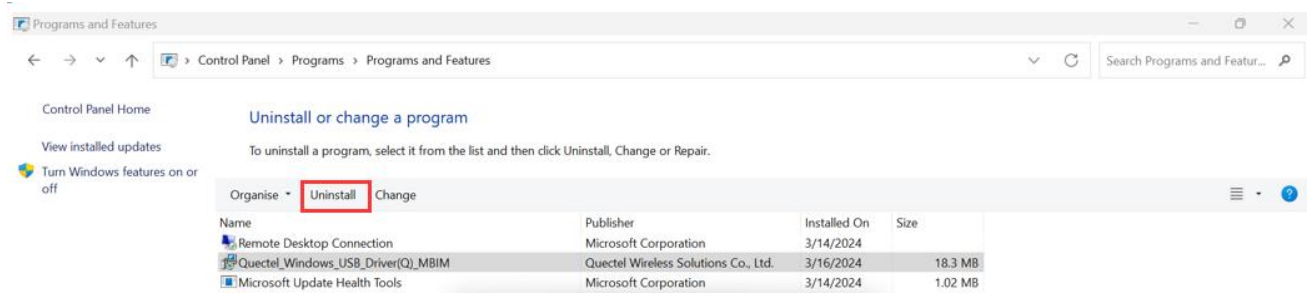
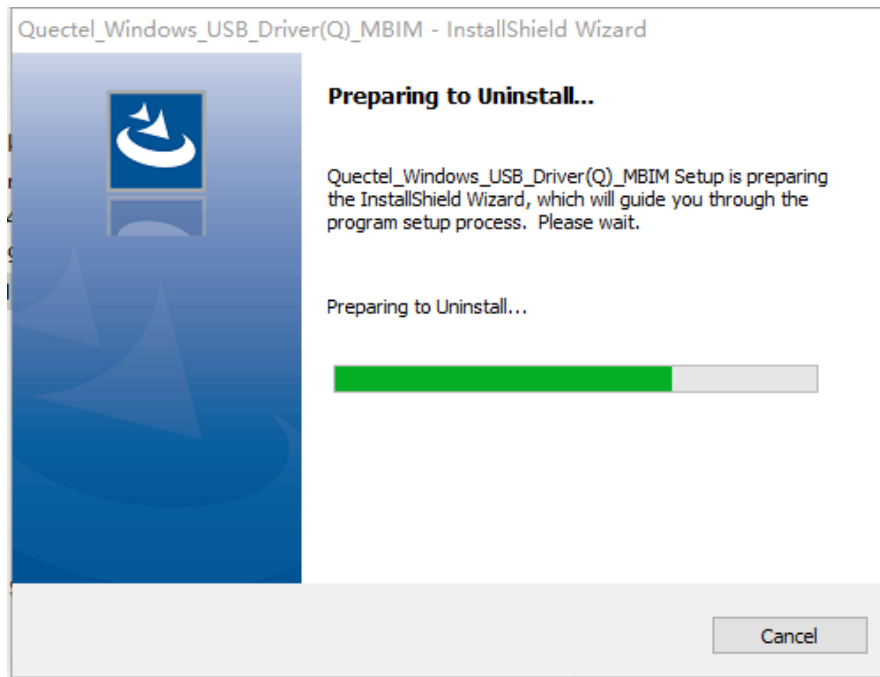


Figure 10: Uninstall USB MBIM Driver

#### Step 2: Check Uninstallation Setting

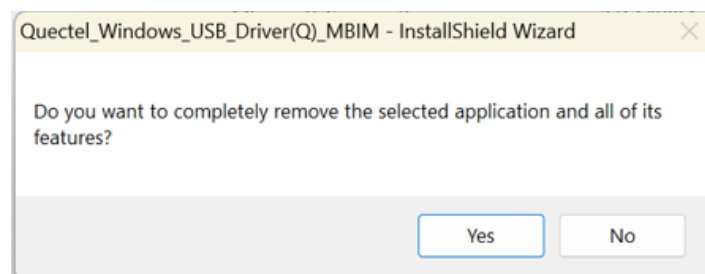
After choosing the installed driver for uninstallation, the system will check the uninstallation setting, as shown in the following figure.



**Figure 11: Check Uninstallation Setting**

### Step 3: Confirm Uninstallation

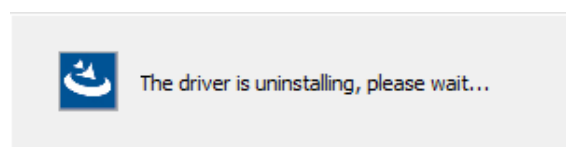
Click **"Yes"** to confirm the uninstallation.



**Figure 12: Confirm Uninstallation**

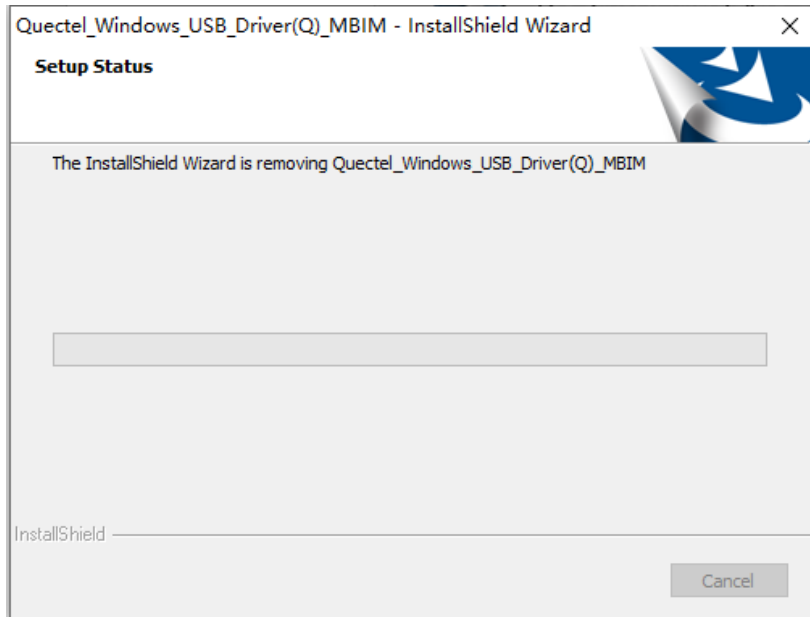
### Step 4: Automatic Uninstallation

Driver uninstallation automatically starts after you confirm the uninstallation.



**Figure 13: Automatic Uninstallation**

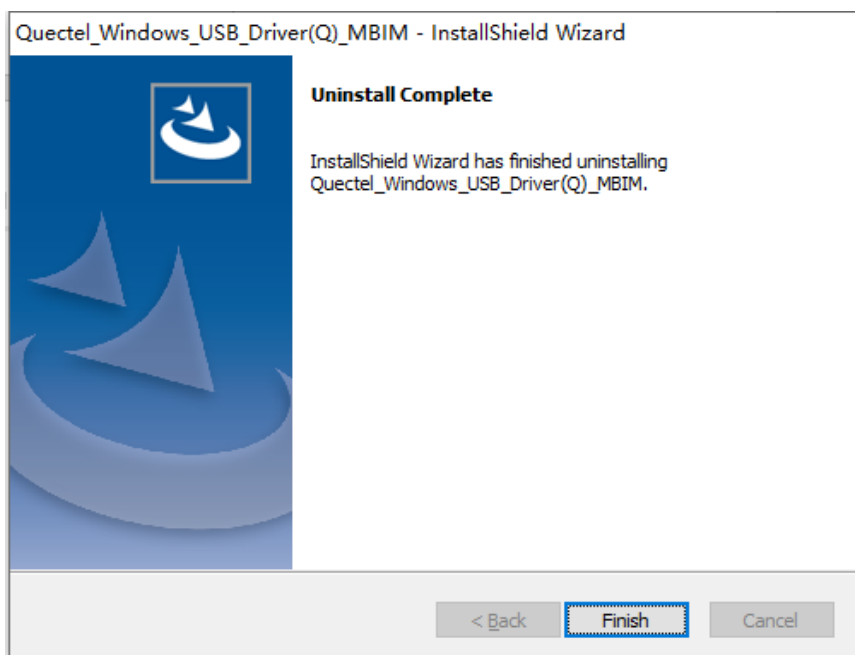
The interface below indicates that InstallShield Wizard is removing installation files. It may take some time to uninstall the driver, please wait patiently for the process to complete.



**Figure 14: Remove Installation Files**

#### **Step 5: Complete Uninstallation**

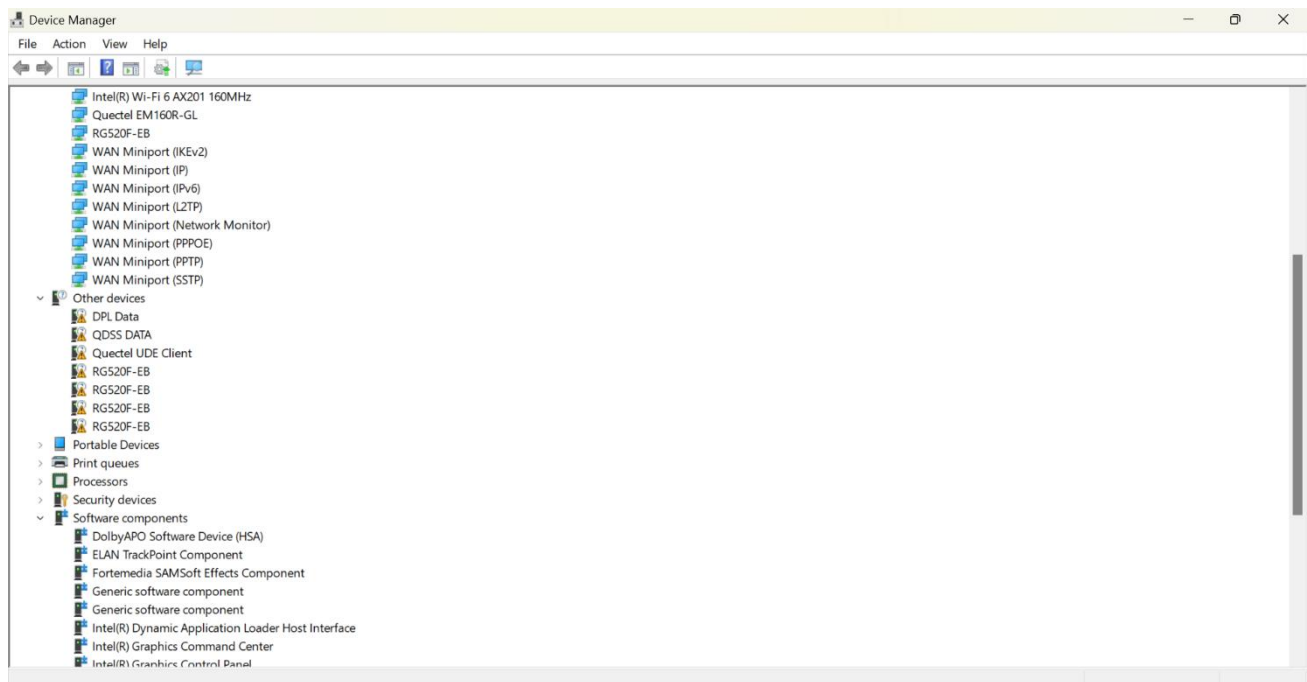
When the following interface is displayed, it indicates the driver has been uninstalled successfully. Click **"Finish"** to complete uninstallation.



**Figure 15: Complete Uninstallation**

## Step 6: Check Uninstallation Result

After the USB MBIM driver has been uninstalled successfully, the device will switch to uninstalled status. You can check whether the driver has been uninstalled successfully or not through "Computer Management" → "Device Manager". The "Device Manager" interface after a successful driver uninstallation is shown below.



**Figure 16: Check USB MBIM Driver Uninstallation Result**

# 4 Appendix References

**Table 2: Related Document**

Document Name
[1] Quectel_QCOM_User_Guide

**Table 3: Terms and Abbreviations**

Abbreviation	Description
5G	5th-Generation
LTE	Long-Term Evolution
LTE-A	LTE-Advanced
MBIM	Ethernet Control Model
PC	Personal Computer
USB	Universal Serial Bus