# **USB DRIVER INSTALLATION GUIDE**

#### Please read this installation guide before installing the USB driver.

• This installation guide describes how to install the USB driver included in the Icom product's CD. If you download the USB driver from the Icom Download Service, specify the folder to store the driver.

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## **1. OVERVIEW**

\_ . . \_ \_ . . \_ . . \_ . . .

## System requirements

To install the driver,	the following	hardware and	l software a	are required:
,				

## PC

- Microsoft<sup>®</sup> Windows<sup>®</sup> 10 (32/64 bit)
- Microsoft<sup>®</sup> Windows<sup>®</sup> 8.1 (32/64 bit)\* \*Except for the "RT" version.
- Microsoft<sup>®</sup> Windows<sup>®</sup> 7 (32/64 bit)
- A USB 1.1, 2.0, or 3.0 port

- Icom is not responsible for problems using a PC with one of the above OSs installed.
- In this installation guide, the above OSs are de-
- NOTE: Icom i with o In this scribe "Wind scribed as "Windows 10," "Windows 8.1," and "Windows 7."





- NOTE: Depertion the radio ognized sible. Depertion differ. port slipher of the side • Depending on the length of a 3rd party USB cable, the radio may not operate properly even if it is recognized by the PC. Use as short a cable as pos-
  - Depending on the radio, the USB port shape may differ. If you use a 3rd party USB cable, confirm the port shape, before purchasing the cable.
- This guide is based on using a radio with a Mini-B type USB port.

## USB driver downloading

The latest driver can be downloaded from here. http://www.icom.co.jp/world/support/

Access the above URL, and download the driver from the "Firmware Updates/Software Downloads"\* menu. \*The menu name may be changed without notice.

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Microsoft and Windows are registered trademarks of Microsoft Corporation in the United States and/or other countries.

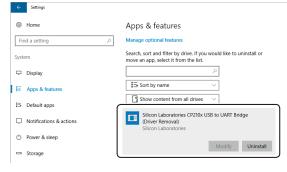
All other products or brands are registered trademarks or trademarks of their respective holders.

## 2. PRECAUTIONS

## **Before installation**

- When installing the driver, confirm Windows has completed its startup, and then log in as the administrator.
- Confirm no other applications are running.
- When a previous version driver is installed on your PC, the driver name "Silicon Laboratories CP210x USB to UART Bridge (Driver Removal)" is displayed on the Control Panel screen, as shown below. In this case, uninstall it before installing this driver.

See "Uninstalling the driver" on page 12 for details.



(Windows 10 screen is shown.)

## Before connecting to a PC

The USB driver is not supported by the automatic recognition system, so **NEVER** connect the USB cable between the radio and the PC until AFTER the USB driver has been installed.

See "Driver installation" on page 3 for details.

• Once the driver is installed, a PC software can be used by just connecting the USB cable.

## Important

- Depending on your PC performance (OS, environment, and so on), the USB audio may be interrupted, or a control by the PC software may get delayed.
- If the CPU has a heavy load, the USB audio is easily interrupted.
- The settings of the installed audio player may be changed after connecting the radio to the PC.
- Icom is not responsible for improper operation when connecting the radio and the PC through a USB hub.

## After installation

#### • Uninstalling the USB driver

You cannot uninstall the USB driver for each individual unit. After uninstalling the USB driver, none of the radios that require this driver can be operated with the PC.

#### When another radio is connected

The COM port number is automatically added after turning ON the radio's power.

### About compatible radios

The radios that require this driver are shown on the lcom website.

http://www.icom.co.jp/world/support/

## Windows 10

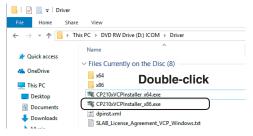
#### NOTE:

- NEVER connect the USB cable between the radio and the PC until AFTER the USB driver has been installed.
- This USB driver is not supported by the automatic recognition system.

The displayed dialog, indications, or operations may differ slightly from the following instructions, depending on your system version and settings.

(1) Confirm that the radio and PC are not connected.

- Double-click the USB driver installer in the "Driver" folder.
  - If you want to install to the 32 bit version OS, double-click "CP210xVCPInstaller\_x86.exe."
  - If you want to install to the 64 bit version OS, double-click "CP210xVCPInstaller\_x64.exe."



③When the "User Account Control" dialog is displayed, click <Yes>.



④ When the install screen is displayed, click <Next>.



(5) The "License Agreement" dialog is displayed. Read the agreement, and click the radio button next to "I accept this agreement," and then click <Next>.

Lioense Agreement	
To continue, accept the following license agreement. To read the entire agreement, use the scroll bar or press the Page Down key.	
LICENSE AGREEMENT SILICON LABS VOP ORIVER IMPORTANT: READ CAREFULLY BEFORE AGREEING TO TERMS	^
THIS PRODUCT CONTAINS THE SILICON LABS VOP DRIVER AND INSTALLER PROGRAMS AND OTHER THRO PARTY SOFTWARE TOGETHER THESE PRODUCTS ARE REFERRED TO AS THE 31/0EN/SED SOFTWARE. USE OF THE LICENSED SOFTWARE IS SUBJECT TO THE TERMS OF THIS LICENSE ASREEMENT.	~
(i) a coept this agreement     Save As     Print     Don't accept this agreement	
	)an cel

#### 6 Windows starts installing the driver.

Device Driver Inst	allation Wizard are now installing	J			
	Please wait while t	he drivers inst	💋 all. This may tai	C some time to	complete.
			< <u>B</u> ack	<u>N</u> ext >	Cancel

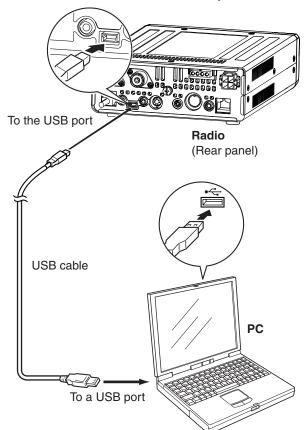
⑦ After the installation has completed, click <Finish>.
Device Driver Installation Wizard

Completing the De Installation Wizard	
The drivers were successfully in You can now connect your device came with instructions, please re	ce to this computer. If your device
Driver Name Silicon Laboratories (sila	Status Ready to use
< <u>B</u> ack	Click Finish Cancel

Solution on the next page.

## Windows 10 (Continued)

- 8 Connect the USB cable between the radio and the PC, as shown below. Then, turn ON the radio's power.
  - Confirm the USB cable connector shape.



- (9) The installation icons are displayed on the taskbar shown below, then Windows starts installing the driver.
  - The USB audio driver is also automatically installed.



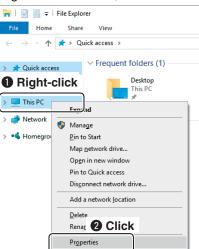
- 10 After the driver installation has completed, the installation icons disappear.
  - Depending on your system version and settings,
- Depending on your system version you may be prompted to restart the P follow the instructions on the screen. you may be prompted to restart the PC. In this case,

After the driver installation has been completed, confirm the port connection and port number.

(1) Click the folder icon on the taskbar.



12 Right-click "This PC," and then click "Properties."

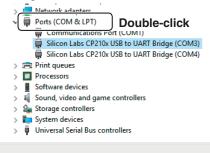


#### 13 Click [Device Manager].

The "Device Manager" screen is displayed.



<sup>(1)</sup> Double-click "Ports (COM & LPT)" on the "Device Manager" screen.



- When the driver is completely installed, "Silicon Labs CP210x USB to UART Bridge (COM\*)" is displayed. The screen shows the USB serial COM port number "3."
- The COM port number is displayed instead of "\*." If the radio has two COM ports, two COM port numbers are displayed.
- Depending on the PC environment, the COM port number may differ.
- If "!" or "x" is displayed on the "Device Manager" screen, the driver may not be properly installed. In such a case, first uninstall the USB driver, then reinstall it.

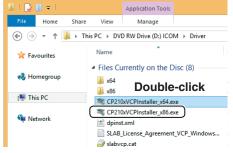
## Windows 8.1

#### NOTE:

- NEVER connect the USB cable between the radio and the PC until AFTER the USB driver has been installed.
- This USB driver is not supported by the automatic recognition system.

The displayed dialog, indications, or operations may differ slightly from the following instructions, depending on your system version and settings.

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④ When the install screen is displayed, click <Next>.

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CP210x USB to UART Bridge Driver Installer
License Agreement
To continue, accept the following license agreement. To read the entire agreement, use the scroil bar or press the Page Down Key.
LICENSE AGREEMENT SILCON LABS VOP DRIVER IMPORTANT: READ CAREFULLYBEFORE AGREEINS TO TERMS THIS PRODUCT CONTAINS THE SILCON LABS VOP DRIVER AND INSTALLER PROGRAMS AND OTHER THIRD PARTY SOFTWARE: TOGETHER THESE PRODUCTS ARE REFERRED TO AS THE BICENSED SOFTWARE: USE OF THE LICENSE AGREEMENT.
Olicital     Seve As     Print     Olicital
Click

6 Windows starts installing the driver.

Device Driver Installation Wizard
The drivers are now installing
Please wait while the drivers install. This may take some time to complete.
< Back Next > Cancel

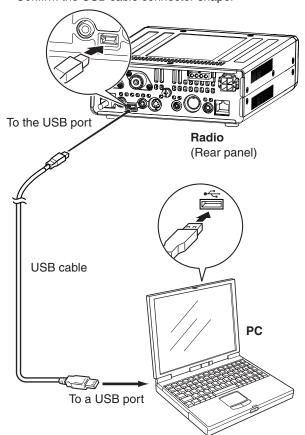
After the installation has completed, click <Finish>.

Dev	rice Driver Installation W	/izard
	Completing the De Installation Wizar	
	The drivers were successfully in	stalled on this computer.
	You can now connect your dev came with instructions, please re	ice to this computer. If your device ead them first.
	Driver Name	Status
	Silicon Laboratories (sila	
	< <u>B</u> ack	Finish Cancel

Solution Continued on the next page.

## Windows 8.1 (Continued)

- 8 Connect the USB cable between the radio and the PC, as shown below. Then, turn ON the radio's power.
  - Confirm the USB cable connector shape.



- (9) The installation icons are displayed on the taskbar shown below, then Windows starts installing the driver.
  - The USB audio driver is also automatically installed.



10 After the driver installation has completed, the installation icons disappear.

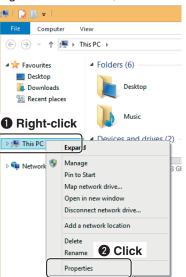
Depending on your system version and settings, you may be prompted to restart the PC. In this case, follow the instructions on the screen.

After the driver installation has been completed, confirm the port connection and port number.

① Click the folder icon on the taskbar.

	$\square$		
0		Click	

12 Right-click "This PC," and then click "Properties."



- 13 Click [Device Manager].
  - The "Device Manager" screen is displayed.



1 Double-click "Ports (COM & LPT)" on the "Device Manager" screen.



- When the driver is completely installed, "Silicon Labs CP210x USB to UART Bridge (COM \*)" is displayed. The screen shows the USB serial COM port number "3."

- The COM port number is displayed instead of "\*." If the radio has two COM ports, two COM port numbers are displayed.
  Depending on the PC environment, the COM port number may differ.
  If "!" or "×" is displayed on the "Device Manager" screen, the driver may not be properly installed. In such a case, first uninstall the USB driver, then reinstall it.

### Windows 7

## NOTE:

NEVER connect the USB cable between the radio and the PC until AFTER the USB driver has been installed.
This USB driver is not supported by the automatic recognition system.

The displayed dialog, indications, or operations may differ slightly from the following instructions, depending on your system version and settings.

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- ② Double-click the USB driver installer in the "Driver" folder.
  - If you want to install to the 32 bit version OS, double-click "CP210xVCPInstaller\_x86.exe."
  - If you want to install to the 64 bit version OS, double-click "CP210xVCPInstaller\_x64.exe."

) 🔾 🗸 📕 🕨 Driver 🕨		<b>▼</b> <del>\$</del> <del>9</del>
Organize 👻 Include in	ibrary ▼ Share with ▼ Burn New folder	E
🔆 Favorites	Name	Date mo
📃 Desktop	🍌 x64	6/27/201
🚺 Downloads	Double-click	6/27/201
🖳 Recent Places	₩ CP210xVCPInstaller_x64.exe	3/5/2013
	CP210xVCPInstaller_x86.exe	3/5/2013
门 Libraries	igi dpinst.xml	3/5/2013
	SLAB_License_Agreement_VCP_Windows	3/5/2013
🖳 Computer	slabvcp.cat	3/5/2013
Local Disk (C:)	slabvcp.inf	3/5/2013

③When the "User Account Control" dialog is displayed, click <Yes>.



④ When the install screen is displayed, click <Next>.



(5) The "License Agreement" dialog is displayed. Read the agreement, and click the radio button next to "I accept this agreement," and then click <Next>.

jcense Ag	eement		CXCI
Ń	To continue, accept the following agreement, use the scroll bar or pr	license agreement. To read the entir ress the Page Down key.	e
	LICENSE AGREEMENT SILICON LABS VCP DRIVER IMPORTANT: READ CAREFUL	LY BEFORE AGREEING TO TERMS	s 💼
	INSTALLER PROGRAMS AND O SOFTWARE TOGETHER THES AS THE "LICENSED SOFTWAR	E PRODUCTS ARE REFERRED TO E". USE OF THE LICENSED	- I
(	SOFTWARE IS SUBJECT TO TH	HE TERMS OF THIS LICENSE	*
	1 Click	2 Click	

6 Windows starts installing the driver.

UART Bridge Drive s are now installin				
Please wait while	the drivers insta	G II. This may ta	ike some time to	complete.
	[	< <u>B</u> ack	][ <u>N</u> ext >	Cancel

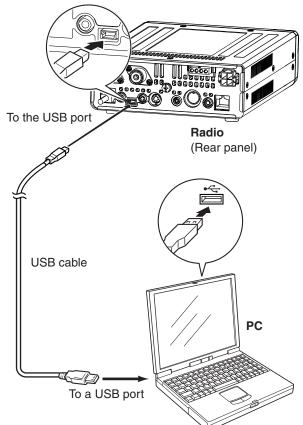
After the installation has completed, click <Finish>.



Continued on the next page.

## Windows 7 (Continued)

- 8 After restarting the PC, connect the USB cable between the radio and the PC, as shown below.
  - · Confirm the USB cable connector shape.



9 Turn ON the radio's power.

- "Installing device driver software" is displayed.
- The USB audio driver is also automatically installed.



10 The following dialog is displayed when the driver installation has been completed.



Depending on your system version and settings, you may be prompted to restart the PC. In this case, follow the instructions on screen.

After the driver installation has been completed, confirm the port connection and port number.

- 1 Click the Windows "START" icon.
- 12 Right-click "Computer" in the <Start> menu, and then click "Properties."

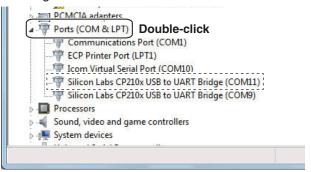


#### 13 Click [Device Manager].

• The "Device Manager" screen is displayed.

Control Panel Home	<ul> <li>System and Security          <ul> <li>System</li> <li>System</li> </ul> </li> <li>View basic informatio</li> </ul>
Sevice Manager Click	Windows edition
🔋 Remote settinas	Minutes 7 Hildington

Double-click "Ports (COM & LPT)" on the "Device Manager" screen.



- When the driver is completely installed, "Silicon Labs CP210x USB to UART Bridge (COM \*)" is displayed. The screen shows the USB serial COM port number "11."

- The COM port number is displayed instead of "\*." If the radio has two COM ports, two COM port numbers are displayed.
  Depending on the PC environment, the COM port number may differ.
  If "!" or "x" is displayed on the "Device Manager" screen, the driver may not be properly installed. In such a case, first uninstall the USB driver, then reinstall it.

After the PC and radio are connected, you can remotely control the radio using the CI-V commands. The radio has a conversion function between USB and Serial. So, if the radio is connected to a PC with the USB cable, the CT-17 is not required for the Icom Communications Interface-V (CI-V) operation.

The [USB] port and [REMOTE] jack can simultaneously be used. So CI-V operation can be done from a PC, even if an Icom CI-V product, such as a transceiver, a receiver, or a linear amplifier (IC-PW1/EURO), is connected to the [REMOTE] jack of your radio.

## 4-1 COM Port setting

Print queues

Processors

1

Software devices

to System devices

Sound, video and

Storage controll

> 🕴 Universal Serial Bus controllers Opens property sheet for the current selection.

Disable

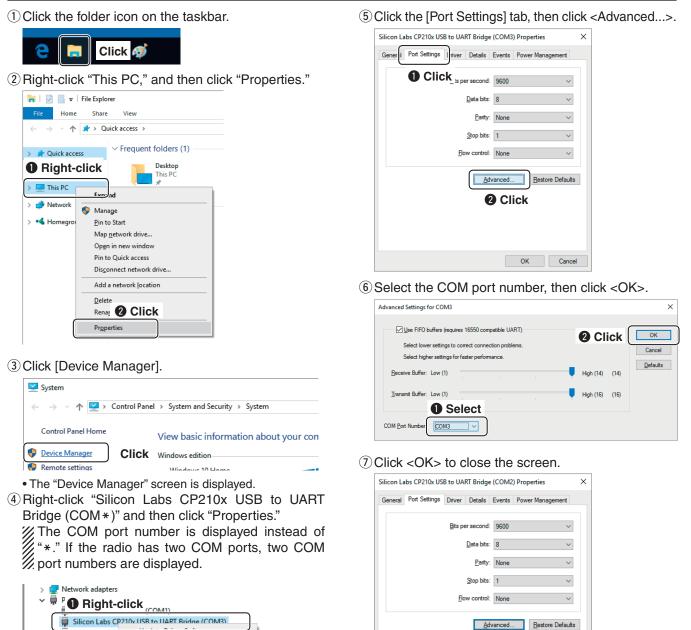
<u>U</u>ninstall

Properties

2 Click ware changes

To change the COM Port number setting, connect the radio to the PC and then turn ON the radio power after the driver installation has been completed.

## Windows 10



Click

ОК

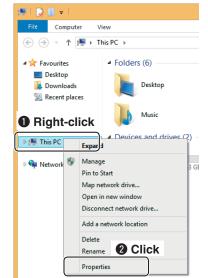
Cancel

## Windows 8.1

① Click the folder icon on the taskbar.



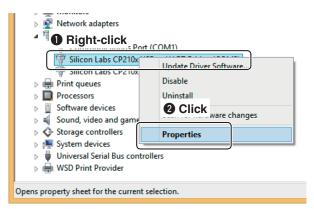
2 Right-click "This PC," and then click "Properties."



- ③ Click [Device Manager].
  - The "Device Manager" screen is displayed.



 ④ Right-click "Silicon Labs CP210x USB to UART Bridge (COM\*)" and then click "Properties."
 The COM port number is displayed instead of "\*." If the radio has two COM ports, two COM port numbers are displayed.



(5) Click the [Port Settings] tab, then click <Advanced...>.

Silicon Labs CP210x USB to UART Bridge (COM3) Prop	×
Gener Port Settings Details Events Power Management	_
Click Bits per second: 9600 v	
Data bits: 8 v	
Parity: None V	
Stop bits: 1 v	
Flow control: None	
Advanced	
2 Click	
OK Cance	1

6 Select the COM port number, then click <OK>.

Advanced Settings for CO	DM3	×
☑ Lee FIFO buffers (requires 16550 compatible UART)	2 Click	ОК
Select lower settings to correct connection problems. Select higher settings for faster performance.		Cancel Defaults
Receive Buffer: Low (1)	High (14) (14)	
O Select		
-		

 $\bigcirc$  Click <OK> to close the screen.

Silicon Labs CP210x USB to UART Bridge (COM2) Prop	×
General Port Settings Driver Details Events Power Management	
<u>B</u> its per second: 9600 ✓	1
Data bits: 8 v	
Parity: None V	
Stop bits: 1 v	
Flow control: None V	
<u>A</u> dvanced <u>R</u> estore Defaults	
Click	
Cancel	

#### 4-1 COM Port setting (Continued)

## Windows 7

- 1 Click the Windows "START" icon.
- ② Right-click [Computer] in the <Start> menu, and then click [Properties].



- ③ Click [Device Manager].
  - The "Device Manager" screen is displayed.



 ④ Right-click "Silicon Labs CP210x USB to UART Bridge (COM \*)" and then click "Properties."
 M The COM port number is displayed instead of "\*." If the radio has two COM ports, two COM port numbers are displayed.

property sheet for 2 Click	Properties
Universal Serial Bus controllers	Scan for hardware changes
Sound, video and game control System devices	<u>U</u> ninstall
Processors	<u>D</u> isable
Silicon Labs CP210x USB to	-
Silicon Labs CP210x USB to	Update Drive, Software
Icom Virtual Serial Port (COM1	
Right-click ()	
A District (COM1)	
Ports (COM & LPT)	
PCMCIA adapters	
PCI Simple Communications C	ontroller
Other devices	
Network adapters	
Monitors	

(5) Click the [Port Settings] tab, then click < Advanced...>.

Click s per second:	9600
Data bits:	8
Parity:	None
Stop bits:	1
Elow control:	None
	Restore Defau

6 Select the COM port number, then click <OK>.

Ivanced Settings for COM11							
Use FIFO buffers (requ					<b>2</b> CI	ick	ОК
Select lower settings to Select higher settings f			15.				Cancel Defaults
Receive Buffer. Low (1)	i.			Ģ	High (14)	(14)	Crudita
Transmit Buffer: Low (1)	-			Ģ	High (16)	(16)	
COM Port Number	•]	) <b>()</b> Se	elect				

⑦ Click <OK> to close the screen.

Port Settings	Driver	Details	Power Management
	<u>B</u> its pr	er second	9600 🗸
		Data bits	8
		Parity	None •
		Stop bits	<b>1</b> ▼
	Ele	w control	None 👻
		Ad	vanced
			Click

## 4-2 Uninstalling the driver

The displayed dialogs or indications may differ slightly from the following instructions, depending on your system version and settings.

## Windows 10

1 Click the Windows icon on the taskbar, then click the



2 Click [System].



## ③ Click "Apps & Features."



④ Click "Windows Driver Package - Silicon Laboratories (silabenm) Ports (12/10/2012 6.6.1.0)."

- D ×



 ⑤ Click <Uninstall>.
 ※ When the "User Account Control" dialog is disi played, click <Continue>.

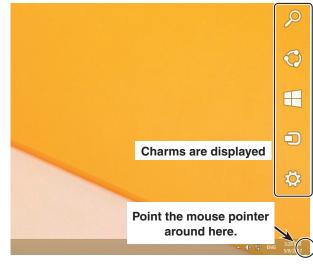


6 Follow the instructions on the screen to uninstall.

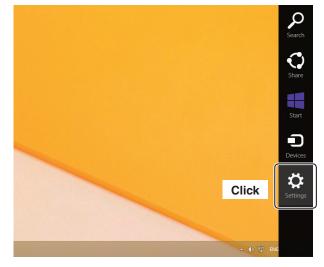
#### 4-2 Uninstalling the driver (Continued)

## Windows 8.1

- ① Point the mouse pointer around the right-bottom corner of the desktop.
  - The charms are displayed on the right of the desktop.



2 Click the "Settings" charm.



#### 3 Click "Control Panel."



## (4) Click "Uninstall a program."

• The "Uninstall or Change a Program" menu is displayed.



 (5) Double-click "Windows Driver Package - Silicon Laboratories (silabenm) Ports (12/10/2012 6.6.1.0)."
 When the "User Account Control" dialog is displayed, click <Continue>.

ß		Pr	ograms and Features			×
۲	🕘 👻 🕆 🧰 🕨 Control Pa	anel > Programs > Programs an	d Features	v C	Search Programs and Features	,p
	Control Panel Home	Uninstall or change a	program			
	View installed updates	To uninstall a program, selec	t it from the list and then click Uninstall, Ch	ange or Repa	ir.	
*	Turn Windows features on or off	Organise 💌	Double-click		i≡ •	0
	(	Name Windows Driver Package - Silin	con Laboratories (silabenm) Ports (12/10/20	12 6.6.1.0)	Silicon Laboratories	

6 Follow the instructions on the screen to uninstall.

4-2 Uninstalling the driver (Continued)

## Windows 7

- 1 Select the "Control Panel" in the Start menu.
- The control panel is displayed. ② Click the "Uninstall a program."
- The "Uninstall or Change a Program" menu is displayed.



 ③ Double-click "Windows Driver Package - Silicon Laboratories (silabenm) Ports (12/10/2012 6.6.1.0)."
 ※ When the "User Account Control" dialog is displayed, click <Continue>.

Con	trol Panel Home	Uninstall or	change a pro	gram		
	installed updates	To uninstall a pr	rogram, select it i	from the list and then	click Uninstall, Cl	hange, or Repa
	Windows features on or					
off		Organize 💌	Do	uble-clic	k	

④ Follow the instructions on the screen to uninstall.

## 4-3 Audio considerations

[Installed audio player] (Windows standard software, and so on.)

For modulation input from the PC, the radio's USB port must be selected as the modulation input source connector. You can set the modulation input source connector in the Set mode, or using the CI-V system.

See the appropriate page in the radio's instruction manual for details.

If you monitor the PC's received audio from an external PC speaker, or use the audio from an external PC microphone as the modulating input, read the instruction manual that comes with the software for details.