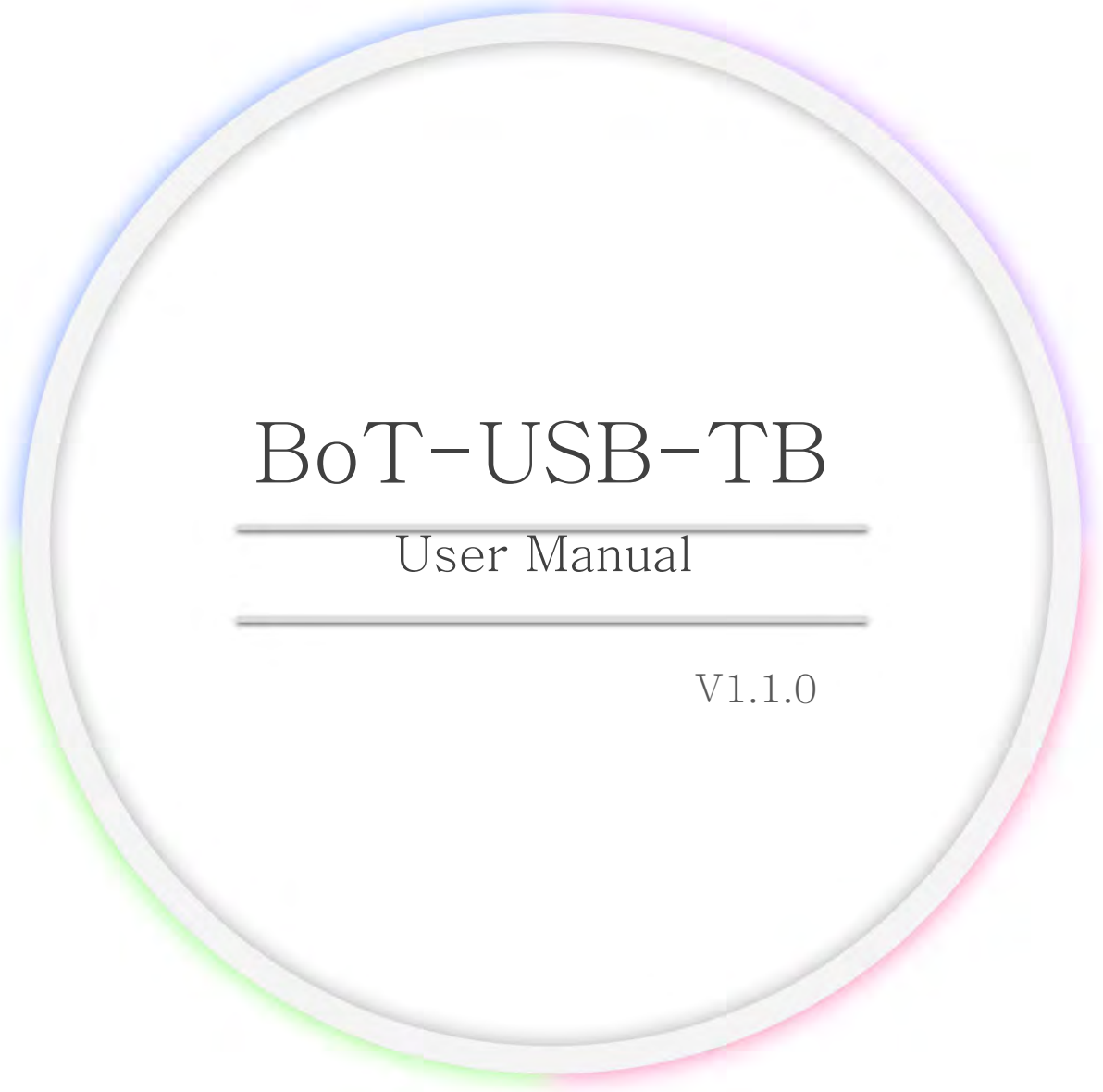




BoT-USB-TB

User Manual

V1.1.0

TABLE OF CONTENTS

TABLE OF CONTENTS	2
1. PRODUCT OVERVIEW	3
2. APPEARANCE AND DETAILS.....	3
2.1. BoT-USB-TB APPEARANCE	3
2.2. BoT-USB-TB DETAILS.....	4
2.3. BoT-USB-TB DIMENSION	7
3. DRIVER INSTALLATION.....	8
3.1. AUTO INSTALLATION	8
3.2. MANUAL INSTALLATION	8
4. BLE MODULE SERIAL PORT DEFAULT VALUE.....	10

1. Product Overview

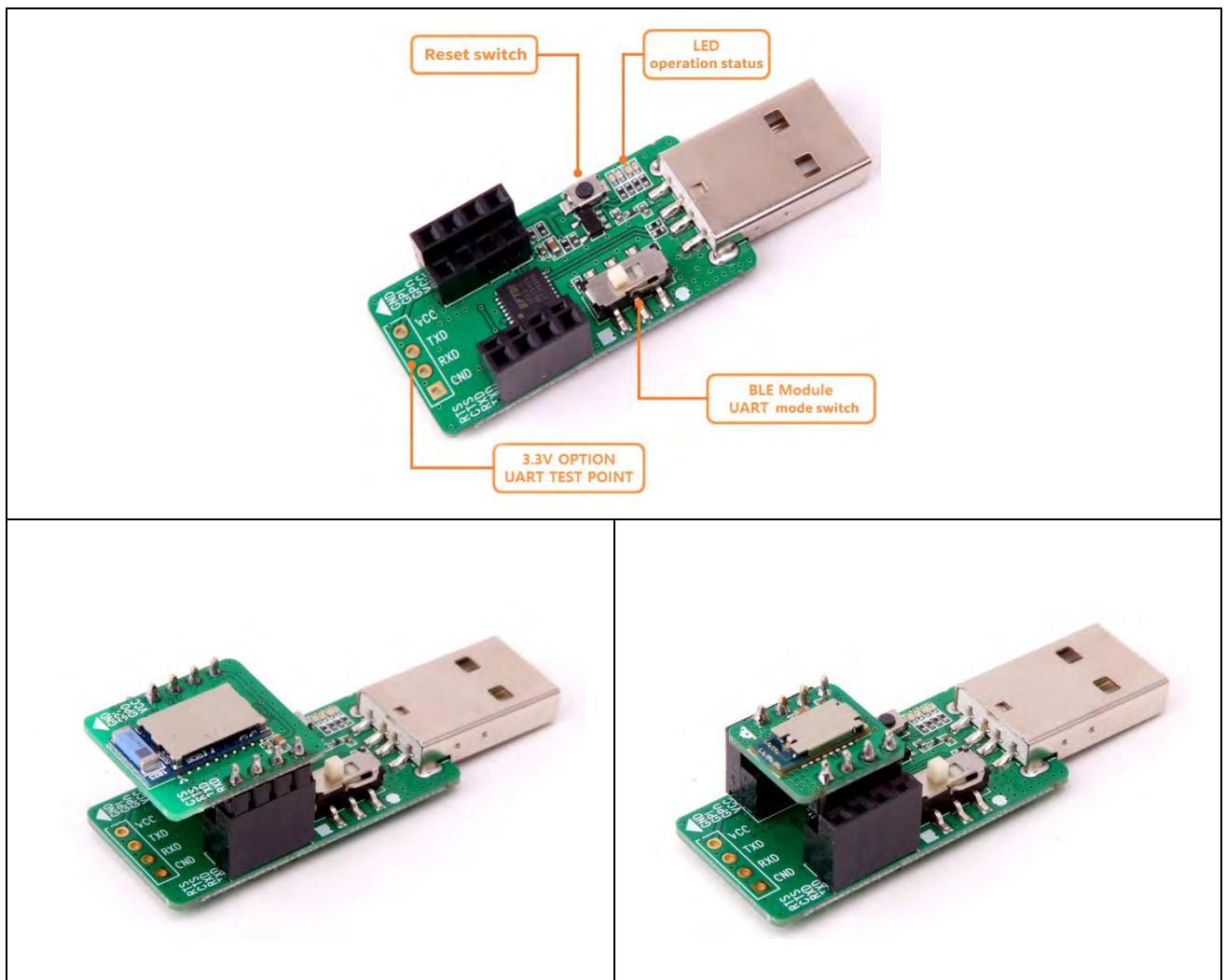
BoT-USB-TB

BoT-USB-TB is a test board for DIP types of modules BoT-nLE521 and BoT-nLE523 to communicate with the PC, which allows the user to check the functionality setting and status of the BLE Module DIP Type Board.

It is mounted on a USB terminal and can be used conveniently without external power.

2. Appearance and Details

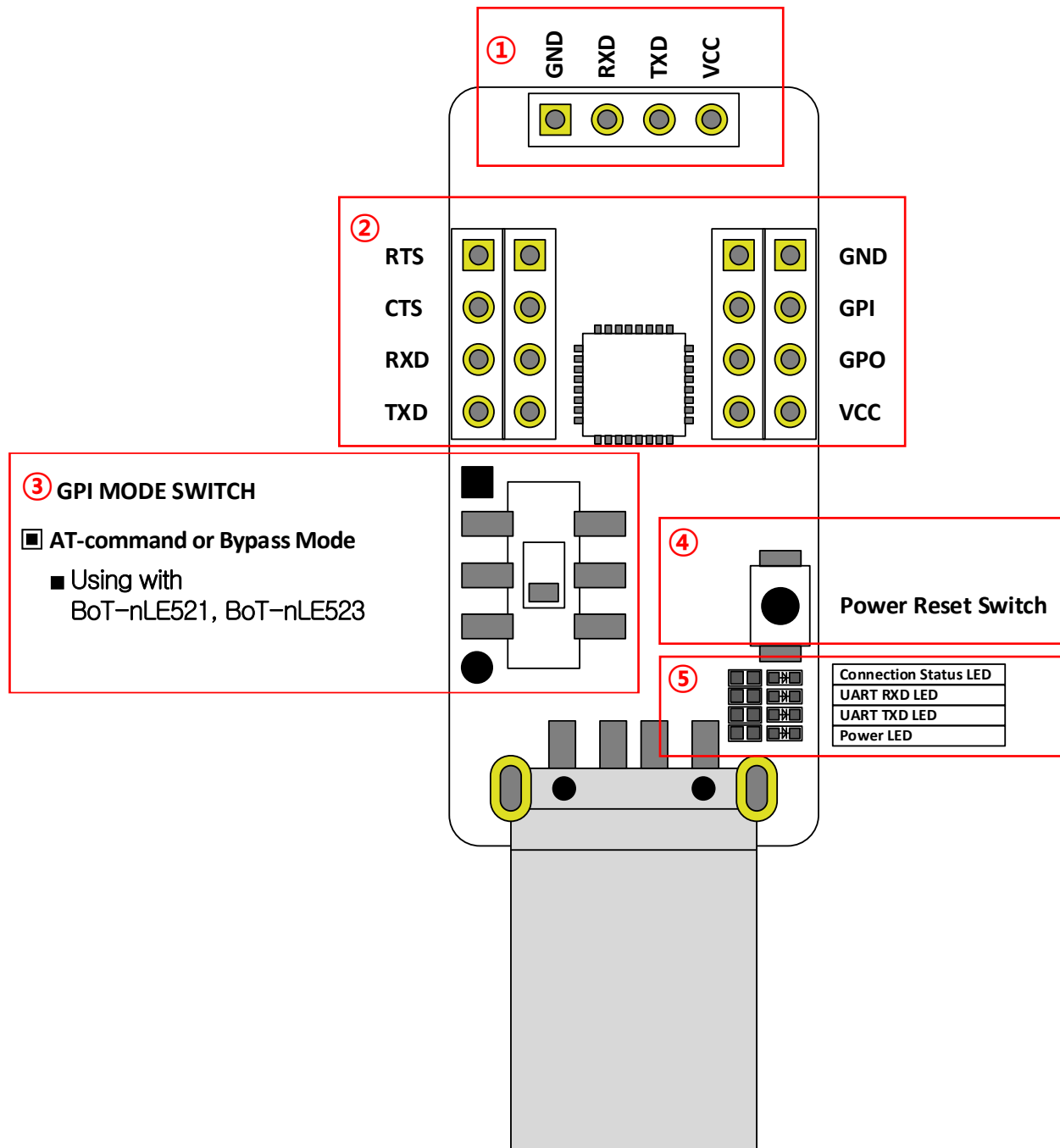
2.1. BoT-USB-TB Appearance



◆ Using with : BoT-nLE521, BoT-nLE521M, BoT-nLE523 (DIP type module)

◆ Picture with a module connected : BoT-nLE521D, BoT-nLE522D (DIP type module is not included)

2.2. BoT-USB-TB Details

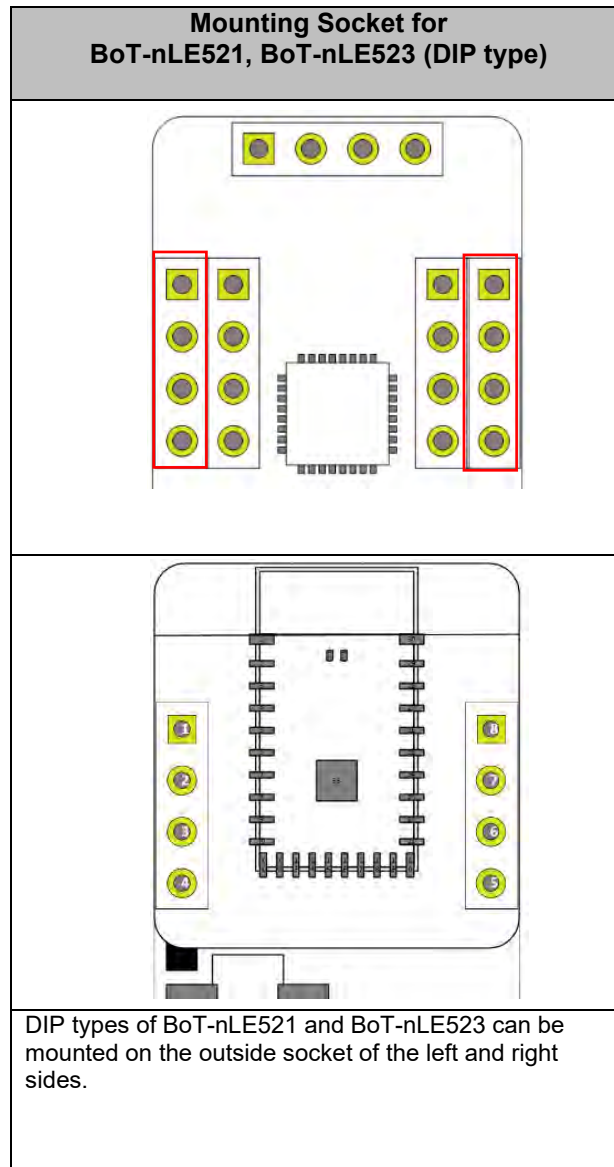


① Optional UART Test Points

- Test board can be used for attaching other parts not only BLE module.

VCC is 3.3V output, and UART communication level is also 3.3V.

② Mounting Socket for BLE Module



GPI MODE SWITCH HIGH	GPI MODE SWITCH LOW
When GPI MODE SWITCH is moved up to direction, 3.3V High is input to BLE Module GPI Pin.	When GPI MODE SWITCH is moved down to direction, 3.3V High is input to BLE Module GPI Pin.

MODULE P/N	GPI MODE HIGH	GPI MODE LOW	REMARK
BoT-nLE521	AT COMMAND MODE	BYPASS MODE	
BoT-nLE523	AT COMMAND MODE	BYPASS MODE	

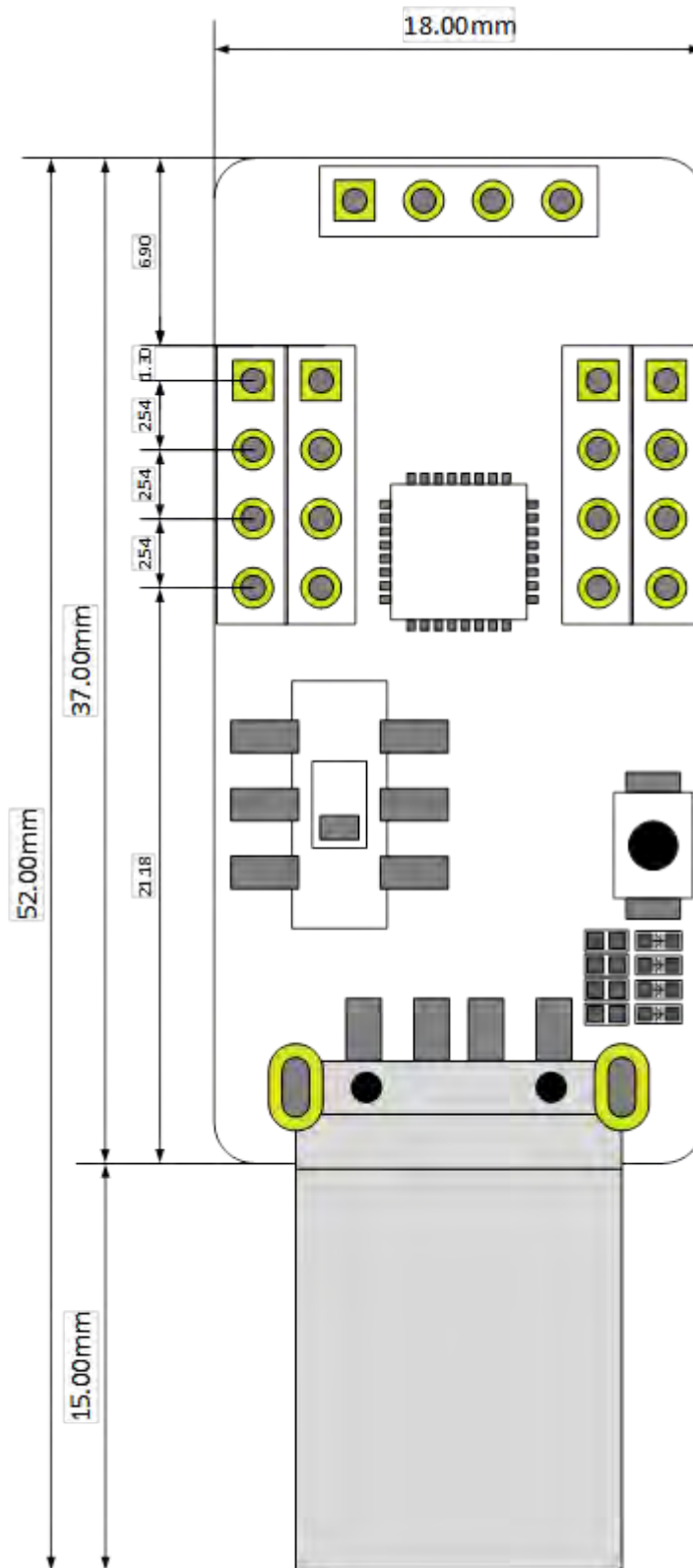
- In the HOST, a state in which BT's device settings can be changed or instructed to perform a specific action is called AT-COMMAND mode, and a state in which BT is connected to the Remote Device and DATA can be delivered to the Remote Device is called the BYPASS mode. BT always maintains AT-COMMAND mode if it is not connected to the Remote Device, and is switched BYPASS mode as soon as it is connected to the Remote Device.

- It is used when the module doesn't work properly or you need to reset the power.

A) Connection Status LED : When connected to the device, LED ON, GPO High Out
When disconnected with the device. LED OFF, GPO Low

D) Power LED : When the power INPUT LDO 3.3V OUT, LED ON

2.3. BoT-USB-TB Dimension



3. Driver Installation

3.1. Auto installation

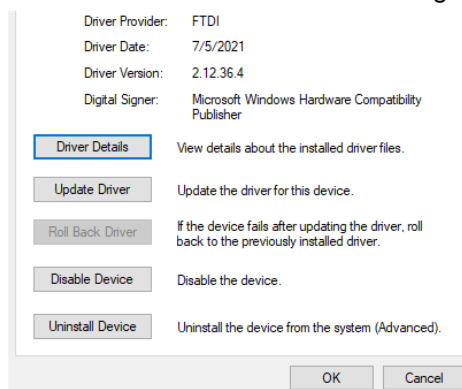
- A) When you connect the PC with this product, it must have an Internet connection to auto installation.
- B) It's the same even if you've used the same product in the past.
- C) The automatic installation process takes about 30 seconds to 5 minutes and is proportional to the PC processing speed.
- E) Each Serial Converter will be recognized as a different COM port number, and past installed products will be recognized as the same COM port number.

3.2. Manual Installation

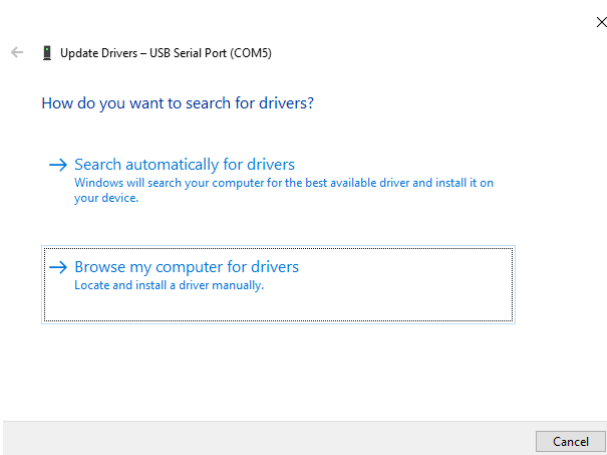
- A) If the PC doesn't automatically recognize your device or doesn't connect to the internet, please install it in the following order.
- B) <https://www.ftdichip.com/Drivers/VCP.htm> Click this link.
- C) Download the drivers for your OS

Operating System	Release Date	Processor Architecture							Comments
		x86 (32-bit)	x64 (64-bit)	PPC	ARM	MIPSII	MIPSIV	SH4	
Windows*	2017-08-30	2.12.28	2.12.28	-	-	-	-	-	WHQL Certified. Includes VCP and D2XX. Available as a setup executable. Please read the Release Notes and Installation Guides.
Linux	-	-	-	-	-	-	-	-	All FTDI devices now supported in Ubuntu 11.10, kernel 3.0.0-19 Refer to TN-101 if you need a custom VCP VID/PID in Linux. VCP drivers are integrated into the kernel.
Mac OS X 10.3 to 10.8	2012-08-10	2.2.18	2.2.18	2.2.18	-	-	-	-	Refer to TN-105 if you need a custom VCP VID/PID in MAC OS
Mac OS X 10.9 and above	2017-05-12	-	2.4.2	-	-	-	-	-	This driver is signed by Apple
Windows CE 4.2-5.2**	2012-01-06	1.1.0.20	-	-	1.1.0.20	1.1.0.10	1.1.0.10	1.1.0.10	
Windows CE 6.0/7.0	2016-11-03	1.1.0.22 CE 6.0 CAT CE 7.0 CAT	-	-	1.1.0.22 CE 6.0 CAT CE 7.0 CAT	1.1.0.10	1.1.0.10	1.1.0.10	For use of the CAT files supplied for ARM and x86 builds refer to AN_319
Windows CE 2013	2015-03-06	1.0.0			1.0.0				VCP Driver Support for WinCE2013

- D) Unzip the file
- E) Update drivers that are not installed in Device Manager.



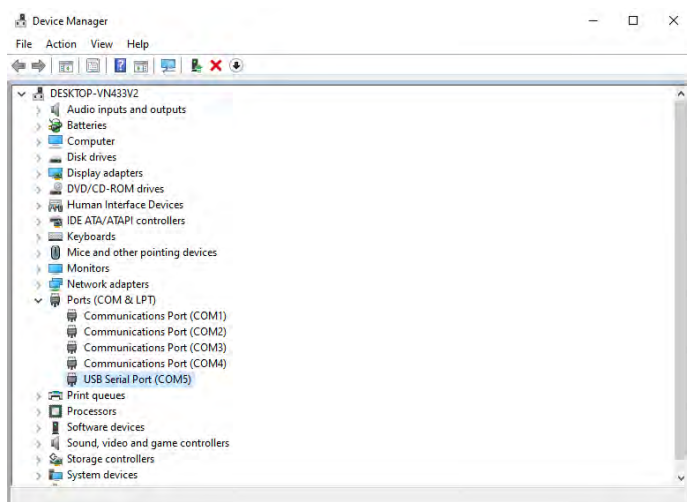
- F) Specifying the location to install.



G) Automatically install by specifying a path.

H) The installed port is possible to be checked as follows.

- Run Device Manager.
- You can check the port is added.



4. BLE Module Serial Port default value

Serial Port Settings	Values
Baud rate	9600
Data bite	8
Parity	None
Stop bit	1
Hardware Flow Control	None