

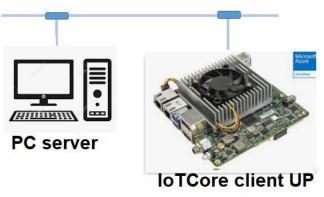
## How to install a driver in Windows IoT Core

Author: RogerTsai Release date: 2020/05/04

Here are some guidelines on how to install a driver in Windows IoT Core form command line.

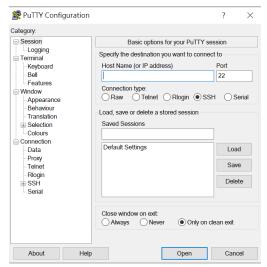
## **Configuration:**

Model: All UP series, here's an UPX example OS: Windows 10 IoT core (ver. 10.0.17763.253) BIOS: UPW1AM15 Set up a PC for remote access The network diagram of our setting PC and IoTCore UP both connect to the same Network Domain.



We running Putty and connecting to a IoTCore UP, to use ssh connection and install device driver via command line, and Putty is a free utility. It can be downloaded from the following link at

https://www.chiark.greenend.org.uk/~sgtatham/putty/latest.html



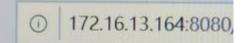


## Operation Instruction / Deploy a WiFi driver to Windows IoT Core

The installation procedure is divided into two parts: Upload driver to IoTCore and remote control a IoTCore device to install the device driver for your drive.

## <To Upload driver to IoTCore, use the following procedure by PC side>

Open a web page just with the IP address:8080.
 The example is shown below if the IoTCore IP address is 172.16.13.164



- 2. Enter "Administrator" and password "p@ssw0rd" to access IoTCore
- 3. When logging in to IoTCore, go with Apps / File explore / Documents, select all driver file (.bin /.inf / .sys / .cat), and then click the Upload button on the web as shown below

$\leftarrow$ $\rightarrow$ $\circlearrowright$ $\textcircled{0}$ 17	2.16.13.164:	8080/#File%20explorer			
$\equiv$ File explorer - Windows Dev	ice Portal				
File explorer					
Device Settings	Ľ	eeprom_qca9377_1p1_NFA435_olpc.bin			
▲Apps	Ľ	eeprom_qca9377_1p1_NFA435_olpc_A.bin			
Apps manager	ß	eeprom_qca9377_1p1_NFA435_olpc_LE_1.bin			
File explorer	ß	eeprom_qca9377_1p1_NFA435_olpc_LE_2.bin			
Quick-run samples	ß	eeprom_qca9377_1p1_NFA435_olpc_LE_3.bin			
Azure Clients	ß	netathr10x.inf			
► Processes	ß	qca61x4_1_1_2.bin			
► Debug	ß	qca61x4_2_2.bin			
Devices	ß	qca9377_2_0.bin			
►Connectivity	ß	Qcamain10x64.sys			
TPM Configuration	ß	qcamainext10x.cat			
Windows Update					
Remote	🗋 Up	D Upload a file to this directory			
Scratch	Ur	瀏覽			



<Remote control a IoTCore device to install the device driver, use the following procedure by PC side>

1. Open a Putty just with the IP address, and click the Open button

PuTTY Configuration		? ×			
Category:					
Session	Basic options for your PuTTY session				
Logging	Specify the destination you want to connect to				
- Keyboard	Host Name (or IP address)	Port			
- Bell - Features	172.16.13.164	22			
Window Appearance	Connection type: Raw Telnet Rlogin SS	H 🔵 Serial			
<ul> <li>Behaviour</li> <li>Translation</li> <li>Belection</li> <li>Colours</li> </ul>	Load, save or delete a stored session Saved Sessions				
Connection	Default Settings	Load			
– Proxy – Telnet		Save			
- Rlogin		Delete			
	Close window on exit: Always Never Only on clean exit				
About Help	Open	Cancel			

 Enter "Administrator" and password "p@ssw0rd" to use this IoTCore Logging & Successful login as shown below

🚰 172.16.13.164 - PuTTY	_	×
📲 login as: administrator 📲 administrator0172.16.13.164's password: 🗧		$\sim$
Administrator: c:\windows\system32\cmd.exe	_	×
Microsoft Windows [Version 10.0.17763.253] Copyright (c) Microsoft Corporation. All rights reserved.		^
administrator@MINWINPC C:\Data\Users\administrator>		

3. To find the driver file, you must find is location on IoTCore using the following commands

>>cd..

>>cd DefaultAccount\Documents

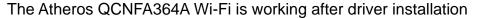
Administrator: c:\windows\system32\cmd.exe	—	$\times$
Microsoft Windows [Version 10.0.17763.253] Copyright (c) Microsoft Corporation. All rights reserved.		^
administrator@MINWINPC C:\Data\Users\administrator>cd		
administrator@MINWINPC C:\Data\Users>cd DefaultAccount\Documents		
administrator@MINWINPC C:\Data\Users\DefaultAccount\Documents>		



www.aaeon.com

4. Go with "pnputil -i -a <name.inf>" and press Enter to add driver package on loTCore.

Here's an example of adding Atheros WiFi driver into IoTCore



= 88	App Settings System	Network & Wi-Fi
0	Network & Wi-Fi Bluetooth	Direct connections
60	App Updates	
	Power Options Diagnostics	Wi-R
	Location	
		Aven home
		AACON Window PEAP
		AECH-Weden
		AHAI1-4754 0947
•		AADON-Fund
		DRECT-HWA-BAND-2227msRx
		SAMOUSE
		Avera HTC by:
		DRECT-sb-HP M15 Lawrige
8		HP-Print-77-Lanarzet 1102
۲	← →	