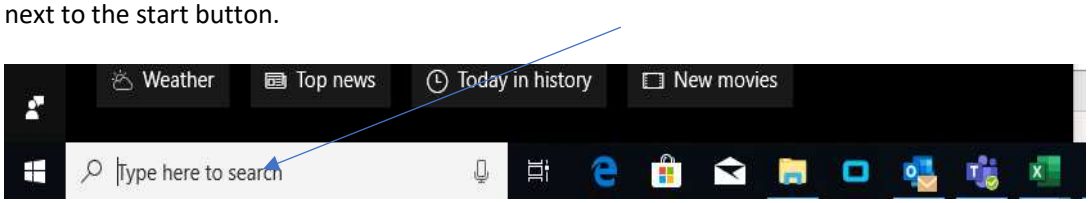
AN703 – AX141100 and Windows 10 Brief Instruction

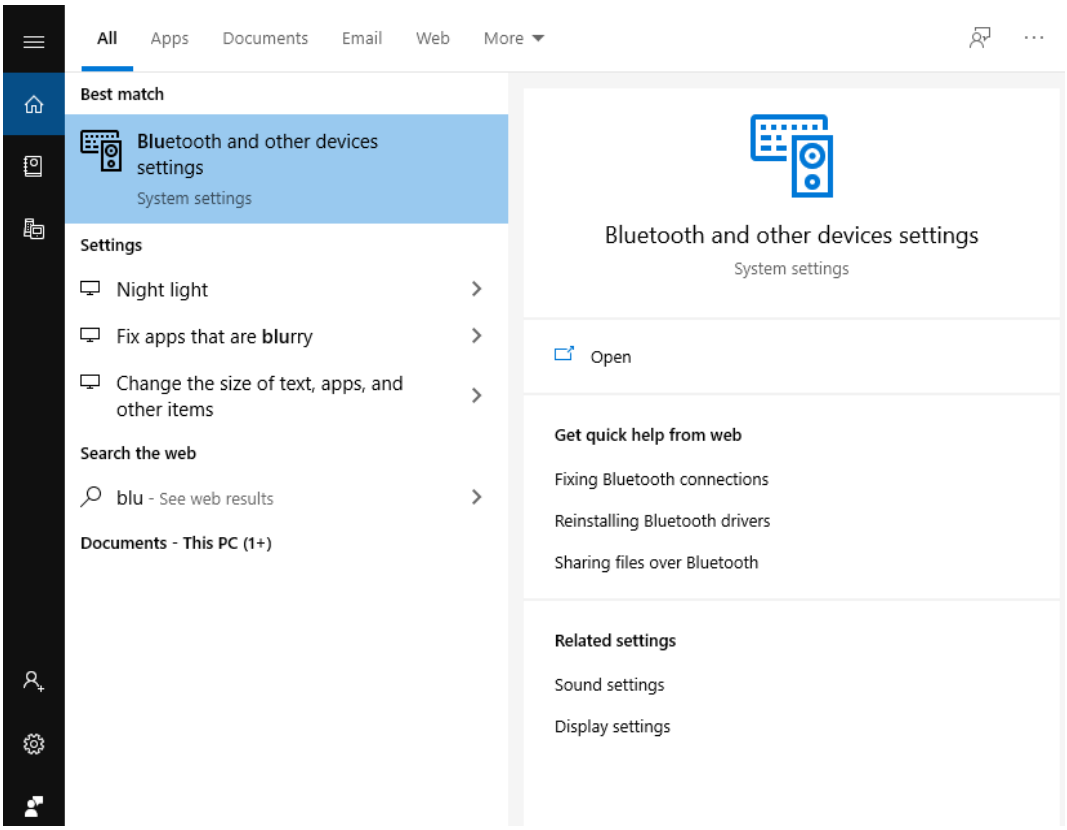
Instructions

Power on the AX141100 CAN to Bluetooth unit. In Windows 10, select 'Bluetooth Devices,' then select 'Add Bluetooth or Other Device'.

1. This is located under settings. To navigate to this screen, enter "Bluetooth" in the search function next to the start button.



2. The screen shown below will pop up. Click on "Bluetooth and other devices settings".



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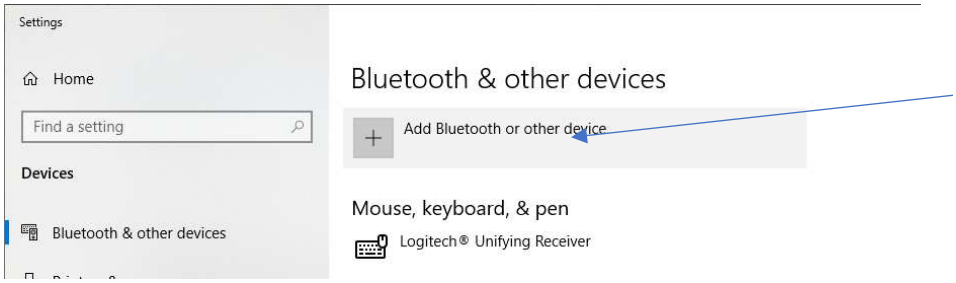
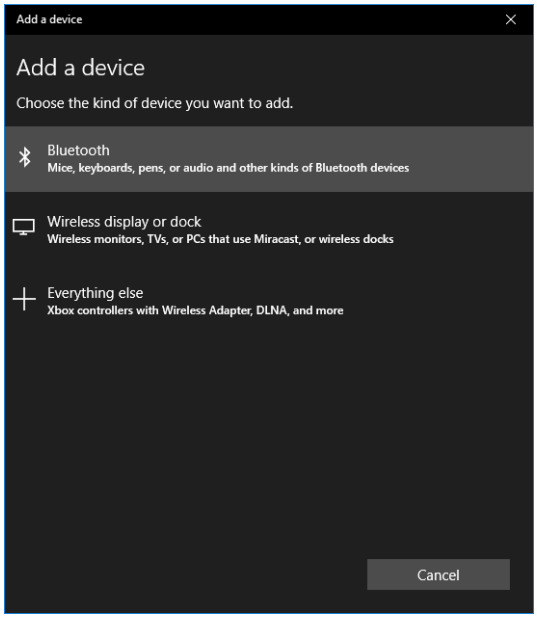
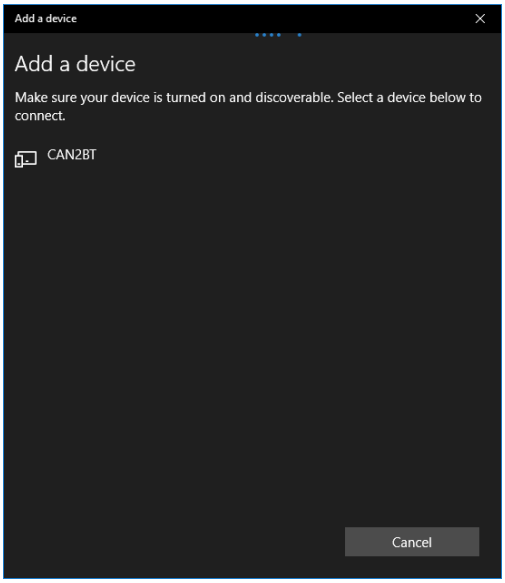
3. Click on “Add Bluetooth or other devices”.



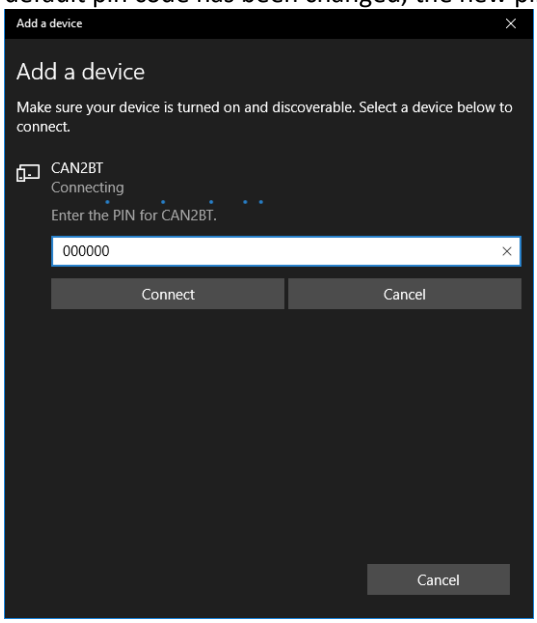
4. Click on “Bluetooth”.



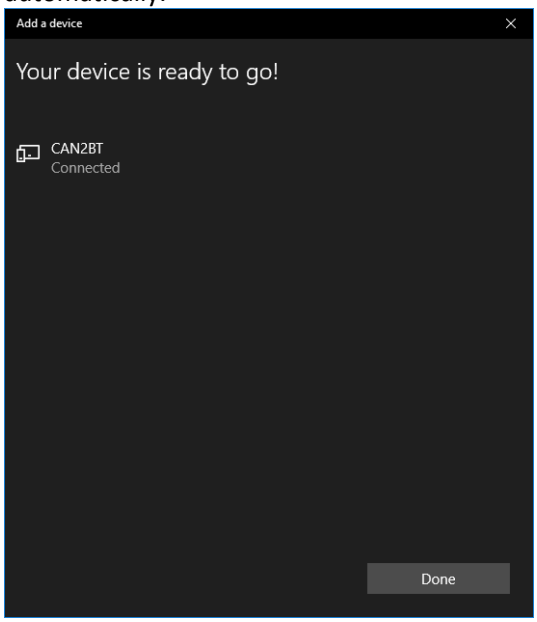
5. Then in the ”Add a device” window that will be displayed, select ’***Bluetooth***’. The ’***Add a device***’ scan results list should have ”**CAN2BT**” as entry.



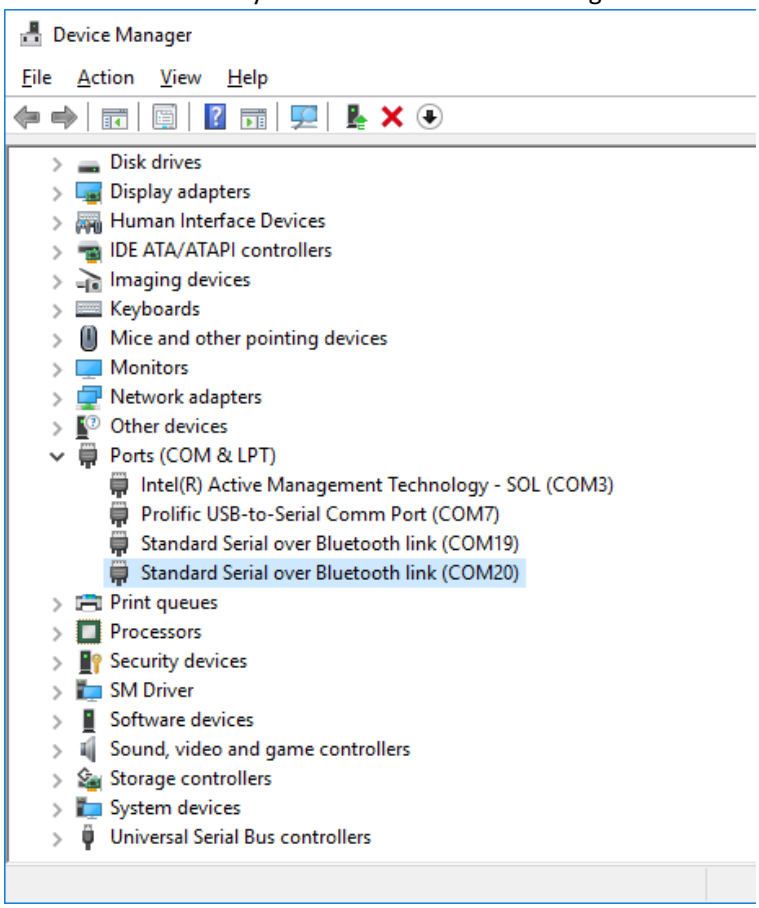
6. Select ”CAN2BT” and enter ’000000’ as the PIN code (the default pin code is six zeros). If the default pin code has been changed, the new pin code needs to be entered.



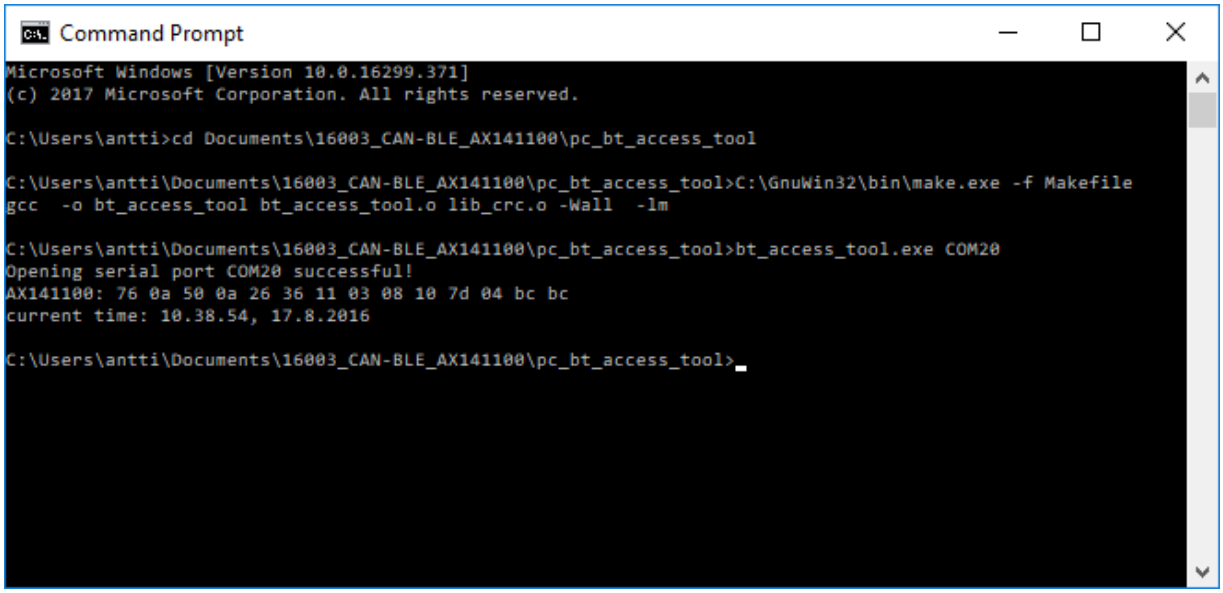
7. After entering the PIN code, the pairing process should report ”Connected”. The AX141100 declares it as a Bluetooth Serial Port, so Windows should install a Bluetooth Serial driver for it automatically.



8. After a successful installation, open 'Device Manager' and verify that two 'Standard Serial over Bluetooth link' devices are available. The second device is the serial port for accessing the AX141100. Now the AX141100 is ready to be used from a PC running Windows 10.



Example:



The example source code, ”pc_bt_access_tool” can be compiled from the Windows command prompt using MinGW and Gnu Make, for example.
https://www.mingw-w64.org
https://www.gnu.org/software/make/

Command for building the source code when MinGW is installed and **gcc** is on the path (assuming that the default install locations are used):

```
cd <project location containing the source code>
C:\GnuWin32\bin\make.exe -f Makefile
```

The bt_access_tool.exe takes the COM port to use as its only argument. Using the setup described in the installation example above:

```
C:\pc_bt_access_tool>bt_access_tool.exe COM20
Opening serial port COM20 successful!
AX141100: 76 0a 50 0a 26 36 11 03 08 10 7d 04 bc bc
current time: 10.38.54, 17.8.2016

C:\pc_bt_access_tool>
```

Additional Information:

- The Axiomatic CAN to Bluetooth converter does not allow insecure connections. It uses Simple Secure Pairing with a pairing code.
- The pairing key is stored locally to the non-volatile memory. Therefore, the Axiomatic CAN to Bluetooth device will ask for the code only once per connecting device. The stored keys are checked upon connection, and a stored key is used instead of a new pairing process if available. The stored keys are erased if the firmware is reflashed.

Version	Date	Authors	Comments
1.00	February 10, 2020	Antti Keranen / Sue Thomas	Initial Release
1.01	February 11, 2020	Antti Keranen / Sue Thomas	Added example
1.02	July 6, 2023	Kiril Mojsov	Legacy Updates & Marketing Review; Fixed the link to MinGW