

BLE_CO2_SensorNetwork Import, Configure & Flash using WICED-Studio v6.4

MCI – EMERGING APPLICATIONS LAB RENE SANTELER, BSC MICHAEL SCHMIDT, MSC



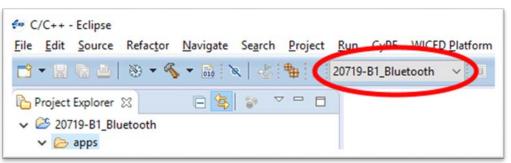


Contents

Import the latest software version into WICED-Studio v6.4:	. 2
Configure the target Bluetooth address:	. 3
Connect the additional Debugger hardware:	. 3
Flash the firmware onto your Sensor Network board:	. 4

Import the latest software version into WICED-Studio v6.4:

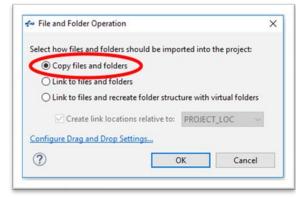
- Download the latest software release from **Github** (*.zip-File). (Link: <u>https://github.com/Infineon/AQM-Sensorhub/releases</u>)
- 2. Unzip the ***.zip**-File.
- 3. Open WICED-Studio v6.4 and select 20719-B1_Bluetooth as the active platform.



- 4. Navigate into your unzipped folder and mark both folders **_CO2_Libraries** and **BLE_CO2_SensorNetwork**.
- 5. Drag & Drop the two folders into the WICED-Studio workspace (onto the apps-Folder).

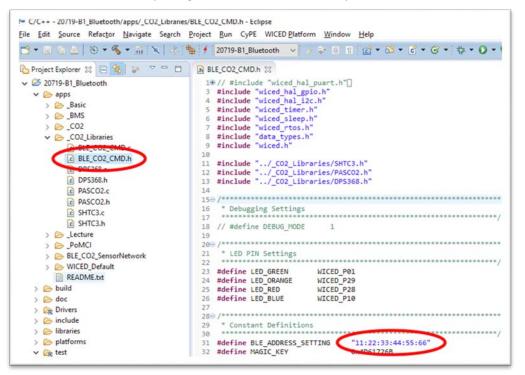
🖻 • 🔚 🐚 些 🛞 • 🗞 • 🗟 🔍 🍪 !	🏪 🖸 20719-B1_Bluetooth 🗸 🔟	■ @ • @ • € • @ • ☆ •	
Project Explorer SS Project Explorer SS	□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □		
	 Schnellzugrift Dieser PC Bilder Desktop Dokumente Downloads Fusion 360 2 Elemente 2 Elemente ausgewä 	Name CO2_Libraries BLE_CO2_SensorNetwork	

6. Select Copy files and folders.



Configure the target Bluetooth address:

- 1. Open the file **\apps_CO2_Libraries\BLE_CO2_CMD.h**.
- 2. Change the value of **BLE_ADDRESS_SETTING** to the desired address. If available, use the Bluetooth address already designated on the backside of your device.



Connect the additional Debugger hardware:

- 1. Connect the provided Debugger to the **USB-Port** of your PC using a **Micro-USB** cable.
- 2. Connect the Debugger to your Sensor Network board using the provided **10-pin ribbon cable**. Please follow the direction of the ribbon cable as shown to prevent damages.
- 3. Make sure the power supply switch on the Debugger board is on **5V ON**.



Flash the firmware onto your Sensor Network board:

1. At the right-hand side of WICED-Studio, create a new make target and use the following target name: BLE_CO2_SensorNetwork-CYW920719Q40EVB_01 download

		Quick Access
		🗄 Outline 📜 Docume 🛞 Make Tar 💥 🗐 Task List 🖓 🗖
🕶 Modify Ma	ke Target X	
Target name:	BLE_CO2_SensorNetwork-CYW920719Q4	BLE_CO2_SensorNetwork-CYW920719Q40EVB_01 download
Make Target		
Contraction of the second second	he target name	
Make target:	BLE_CO2_SensorNetwork-CYW920719Q	
Build Comm	and	
Use builde	er settings	
Build comma	and: C:\Users\meschmidt\Documents\W	
Build Setting	s	
Stop on fi	rst build error	
Run all pro	oject builders	
	OK Cancel	
	Caricel	

- 2. Make sure the provided Debugger is connected as shown in the previous chapter.
- 3. Double-click the created **Make Target** and watch the output at the console.

📃 Console 🕱 👔 Problems 🛷 Search 🕸 Debug 🎲 Call Hierarchy 🖏 Progress CDT Build Console [20719-B1_Bluetooth] Total RAM footprint 8416 bytes (8.2kiB) Converting CGS to HEX... Conversion complete Creating OTA images... Conversion complete OTA image footprint in NV is 68046 bytes Detecting device... Device found Downloading application ... Download complete Application running. 15:35:15 Build Finished (took 17s.288ms)

4. If the upload failed, try to hold the **Recover** button while connecting the Sensor Network board to the Debugger board.