ams

Quick Start Guide

QG000117

CCS801

Standard Board

CCS801-DF_EK_ST

v3-00 • 2018-Oct-03

Content Guide

1   Out of the Box

Each CCS801 evaluation kit comes with the following components:
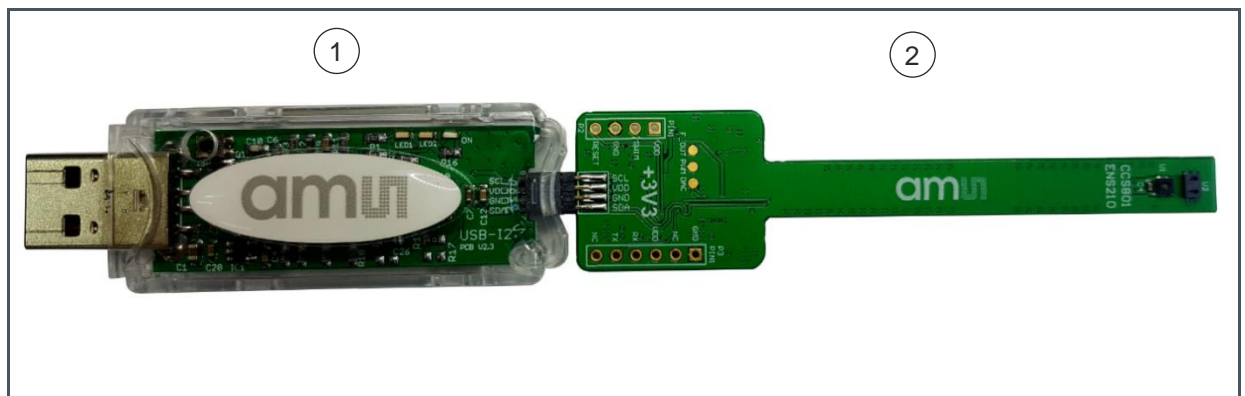
- CCS801 development board V4
- USB-I2C dongle (VDD: +3V3)
- Card with URL to download application software and documents

For a detailed description of the CCS801 Standard Board, please refer to User Guide:

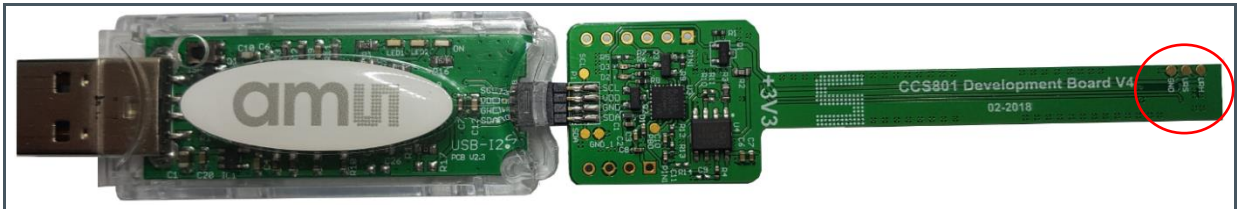- CCS801 User Guide (UG000369)

Figure 1:
CCS801 Evaluation Kit

| **1** | USB-I2C Dongle | **2** | CCS801 Development Board V4 |

2   Connect Hardware

Figure 2:
Sensor ICs Facing Upwards

Figure 3:
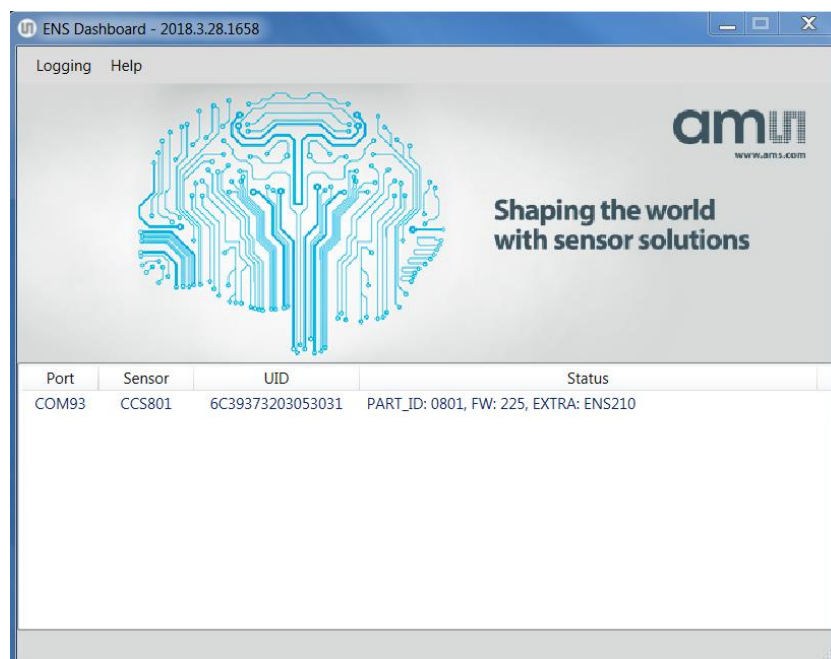**Sensor ICs Facing Downwards**

- Connect CCS801 development board V4 to USB-I2C Dongle as above Figure 2 or Figure 3. Both PCB sides may face up, which the 8-pin connector is rotated symmetrically.

- Connect USB-I2C dongle to Windows PC by USB port. The dongle should be detected as "USB-I2C Dongle (COMxx)" under "Ports (COM & LPT). This can be checked in Device Manager.

- For older Windows versions (below Win10), the CDC driver for the dongle needs to be installed. It is available at the below link,
https://ams.com/usbi2c

- Installing Windows PC ENS dashboard application. Installer and User Guide for the Windows ENS dashboard are available at the below link,
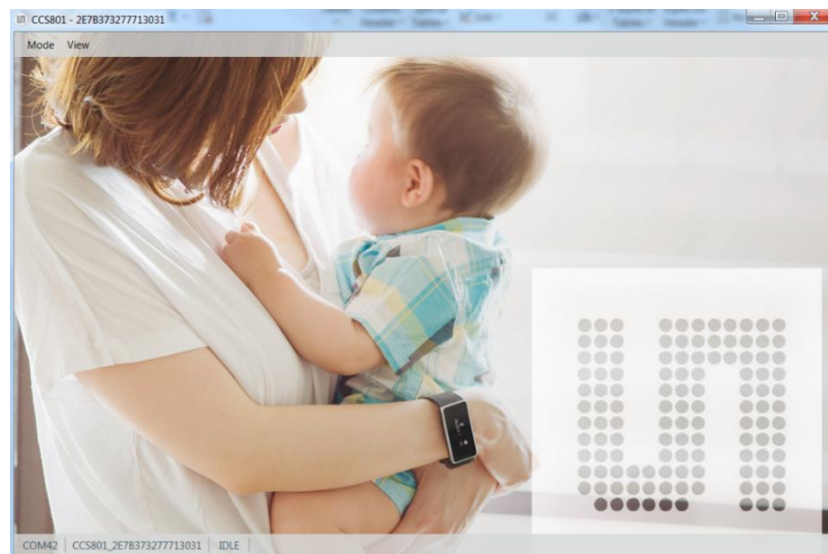https://ams.com/ensdashboard

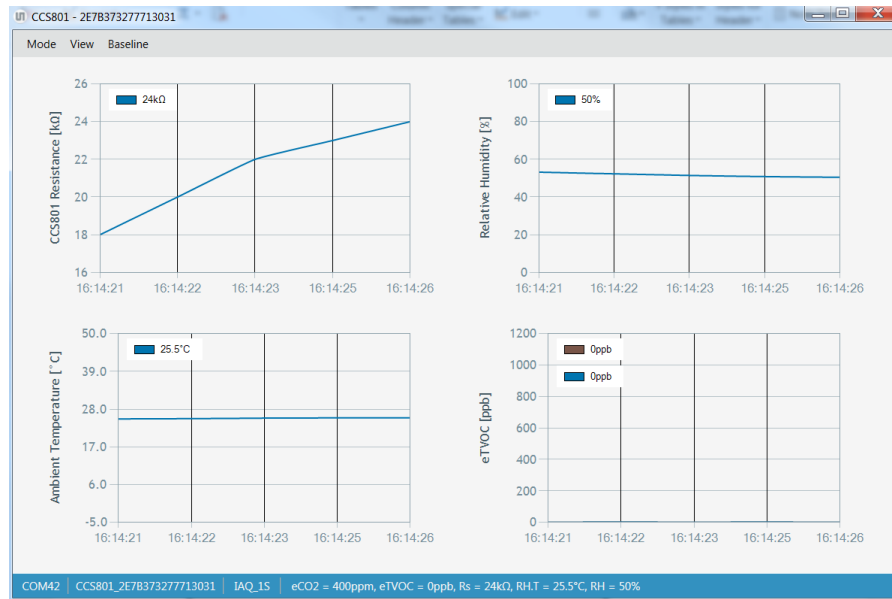# 3 Start the Application

1. Launch ENS Dashboard

After setting up a hardware connection as section 2 (Connect Hardware) is completed and opens Dashboard, it will indicate COM Port number, CCS801 sensor, UID number, Part ID, firmware version and EXTRA: ENS210. Please note that different CCS801 development board will indicate different UID number and ENS Dashboard version will automatically update on line from time to time.

2. Double click "CCS801", a new window will pop up as below,

3. Select "Mode" and choose "IAQ 1s ", then measurement will start using "1s mode" as below,

The four graphs show CCS801 Resistance in kΩ, Ambient Temperature in °C, Relative Humidity in %, and eTVOC in ppb. The current actuals are also indicated at the bottom bar. For more details for Dashboard features, you can refer to:

https://ams.com/ensdashboard

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