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TR_Tin_AreaScanerRadar_20211107

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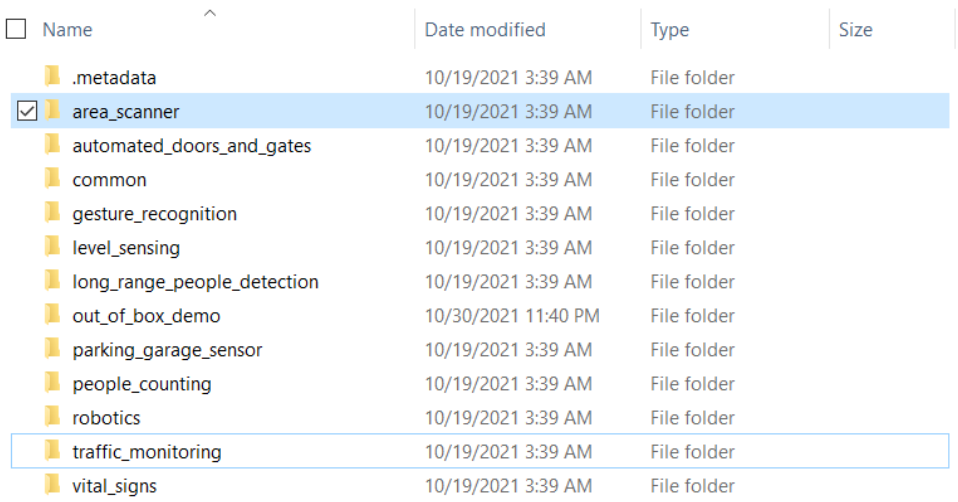


Name	Date modified	Type	Size
.metadata	10/19/2021 3:39 AM	File folder	
area_scanner	10/19/2021 3:39 AM	File folder	
automated_doors_and_gates	10/19/2021 3:39 AM	File folder	
common	10/19/2021 3:39 AM	File folder	
gesture_recognition	10/19/2021 3:39 AM	File folder	
level_sensing	10/19/2021 3:39 AM	File folder	
long_range_people_detection	10/19/2021 3:39 AM	File folder	
out_of_box_demo	10/30/2021 11:40 PM	File folder	
parking_garage_sensor	10/19/2021 3:39 AM	File folder	
people_counting	10/19/2021 3:39 AM	File folder	
robotics	10/19/2021 3:39 AM	File folder	
traffic_monitoring	10/19/2021 3:39 AM	File folder	
vital_signs	10/19/2021 3:39 AM	File folder	

1. Requirements

Tool	Version	Download Link
TI mmWave SDK		MMWAVE-SDK 03_05_00_04 - TI.com
mmWave Industrial Toolbox		Industrial Toolbox (ti.com)
MATLAB Runtime	2019a (9.6)	MATLAB Runtime - MATLAB Compiler - MATLAB (mathworks.com)
Uniflash	Offline	UniFlash (ti.com)

2. Quickstart

a. Setup the EVM for Flashing Mode

1. Ensure that the SOP Switches (SW2) are set to **Flash Programming Mode**
2. Connect AoPCB Board to Host PC via USB cable.
3. Open Uniflash tool, select IWR1642 and click 'Start'.
4. Under Settings and Utilities tab, choose CFG_port as the COM port.

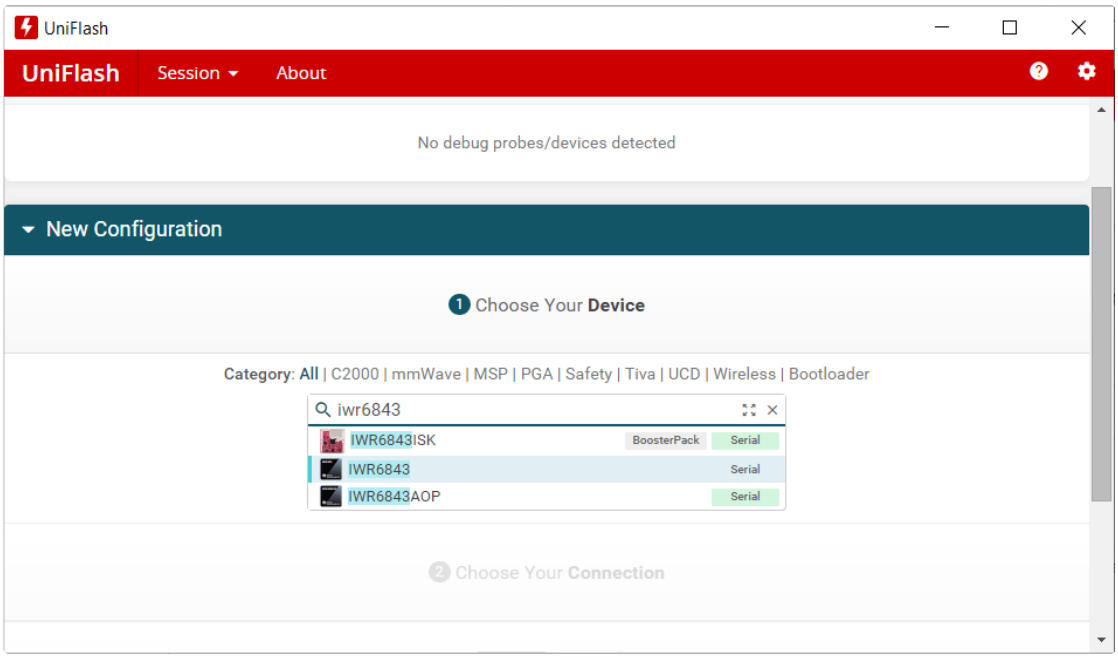
AoPCB Port	Host PC COM Ports	Port Function
CFG_port	Port: CP2105-Enhanced COM Port, Baud Rate:115200	AoPCB Programming & Configuration

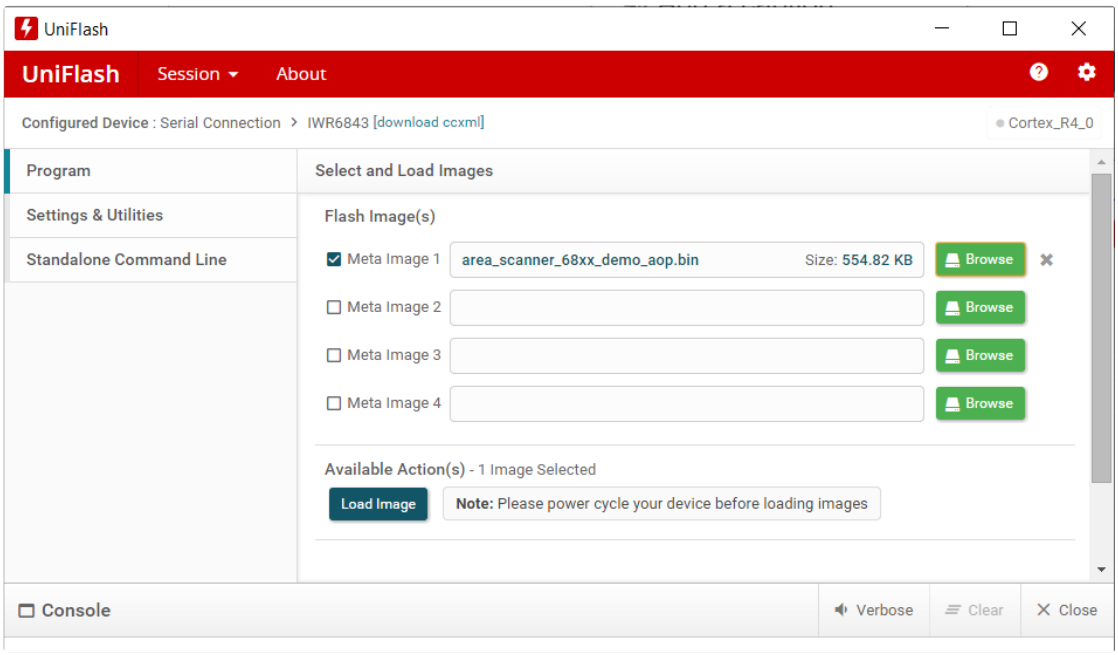
DATA_port	Port: CP2105-Standard COM Port, Baud Rate:921600	AoPCB MSS Logger output

Table 2 : UART Port mapping

1. Under 'Program' tab, browse to the binary file to be programmed for 'Meta Image 1'. In the release zip package provided by Mistral, the binary file is 'MS_60GhzAoPCB_mmw_demo.bin'.
2. Click 'Load Image'.
3. Check logs in Console window to verify flashing status. After successful flashing, disconnect the board from PC.
4. Power OFF the Board.
5. Set SOP Switches back to Functional Mode for normal Radar Function

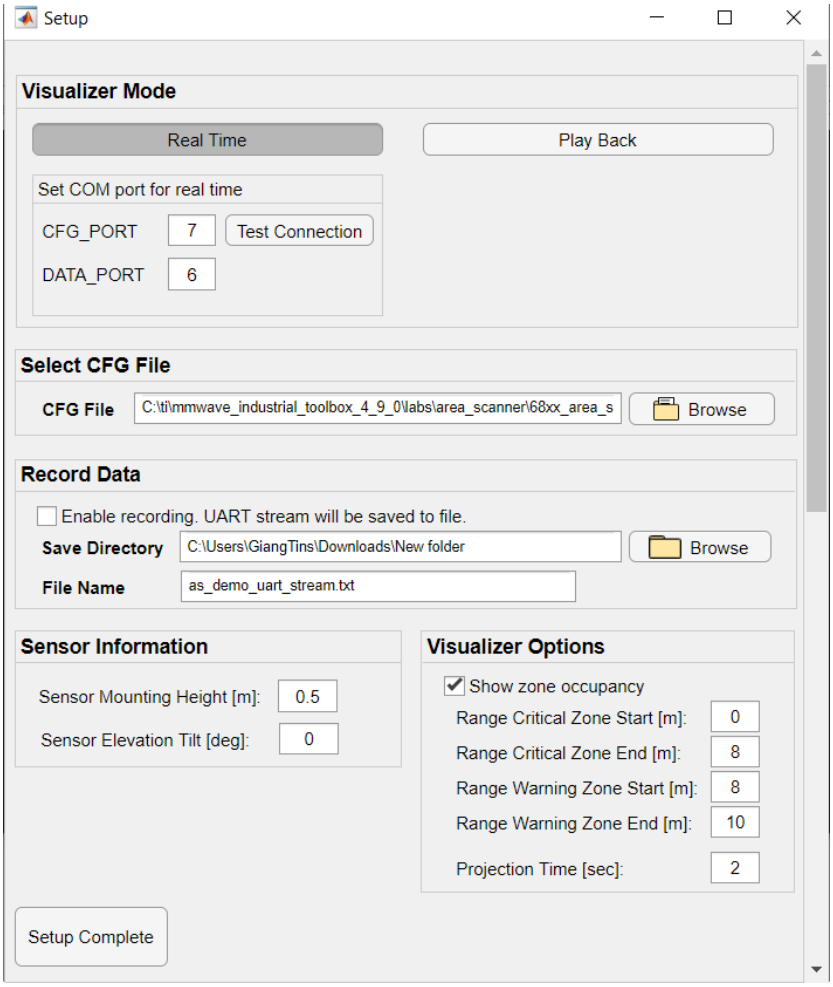
b. Flash the EVM using Uniflash



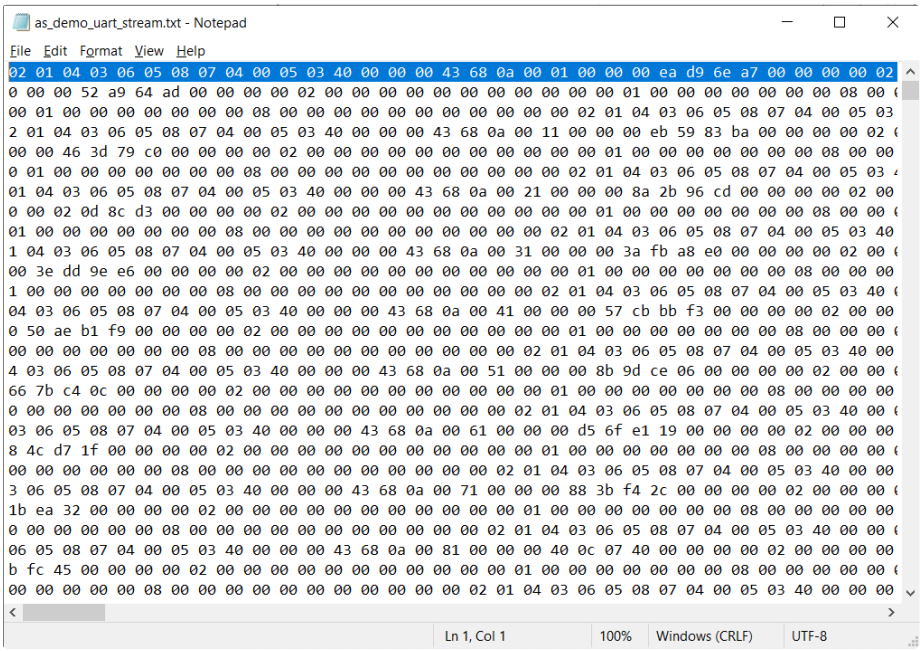


c. Setup the EVM for Functional Mode

d. Run the Lab



d. Data out format



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