



a module solution provider

MT5C01-03

MT5C01-03 Motion Presence Detection

Evaluation Kit

User Guide

Revision 1.0

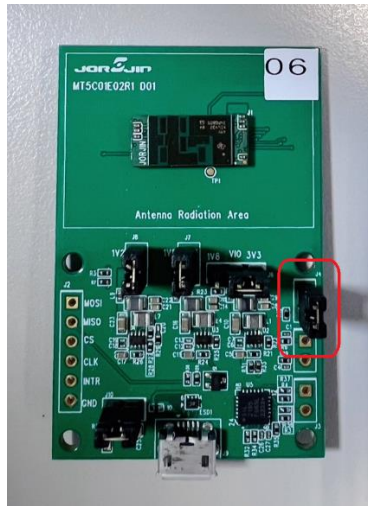
Index

• Flashing Firmware:.....	3
• Using TI Visualizer to Start the Radar:	6
• HISTORY CHANGE.....	7

Operating MT5C01-03 with TI Visualizer

Flashing Firmware:

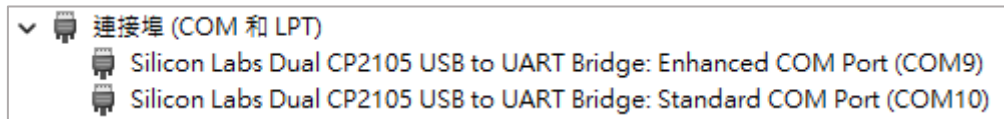
1. Switch to flash mode by shorting jumper pins J4 on the MT5C01-03.



or V2 board



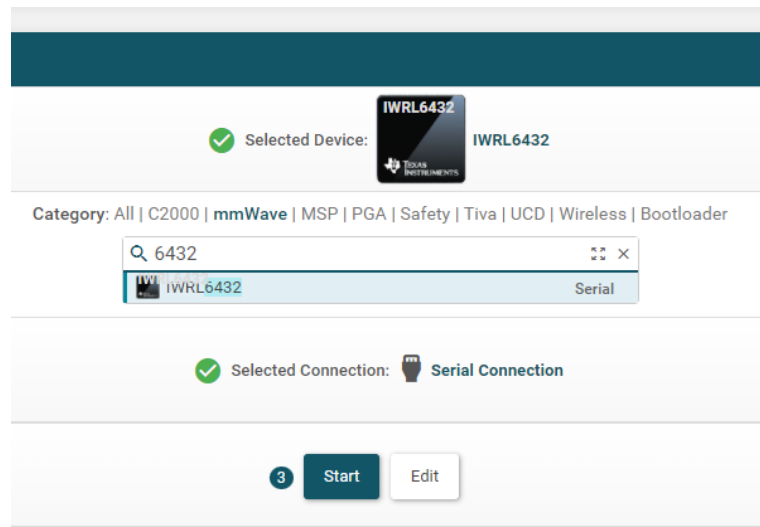
2. Connect MT5C01-03 to the computer and verify COM Port recognition and connection in the Device Manager. Before flashing firmware, disconnect and reconnect the connection cable to reset MT5C01-03.



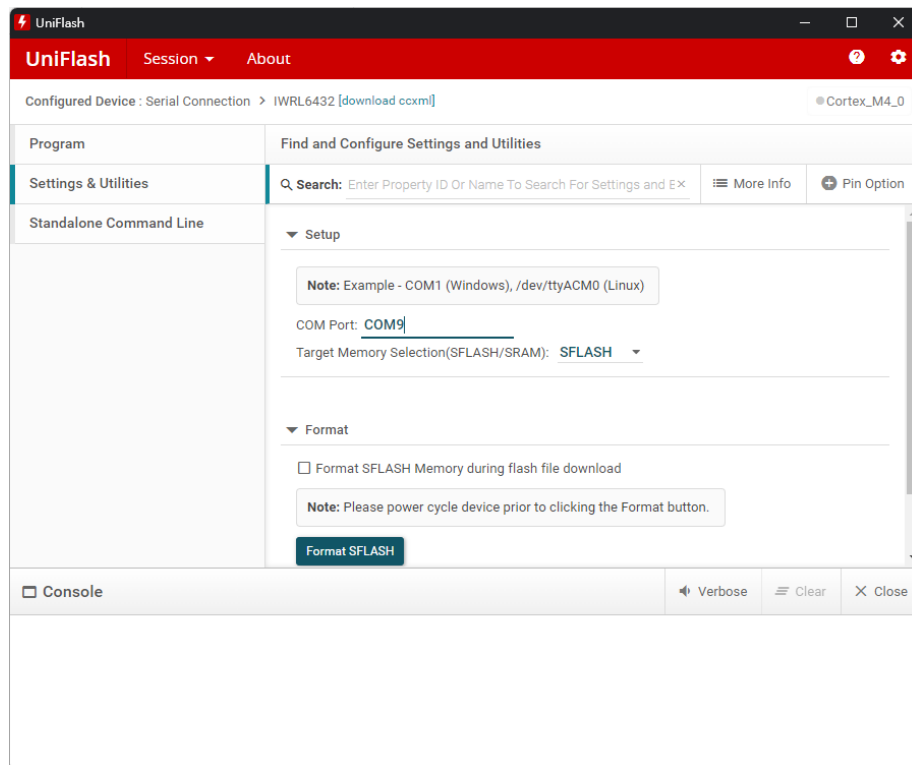
3. Open the UniFlash application (version 8.3 or above).

Download link: <https://www.ti.com/tool/UNIFLASH>

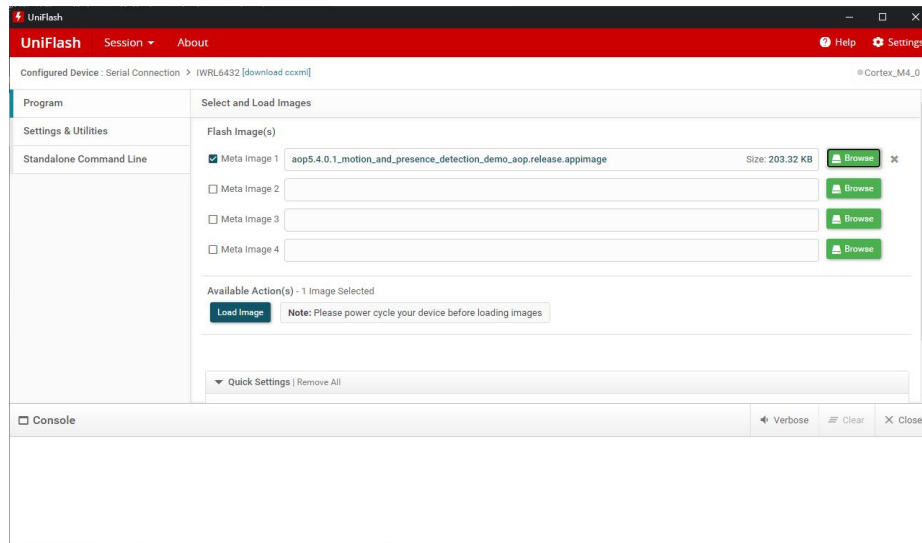
- Select the configuration for mmWave IWR6432.



- Enter the number of the Enhanced COM Port in the “Setting & Utilities” page.



- On the Program page, check Meta Image1 and browse for the firmware binary file to be written, making sure to display all files, and select “aop5.4.0.1_motion_and_presence_detection_demo_aop.release.appimage”.



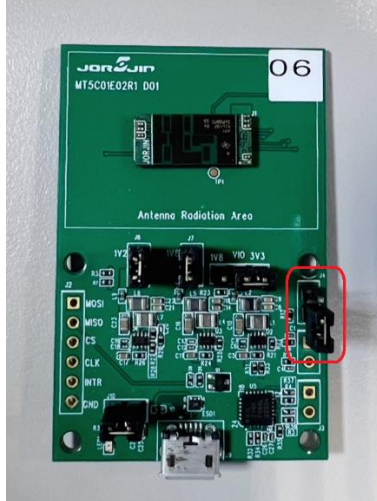
- Press Load Image to start the programming process. Wait until the success message appears to complete the firmware writing process.

Console

```
[2024/3/14 下午3:31:16] [SUCCESS] Cortex_M4_0: -->Erase storage completed successfully!
[2024/3/14 下午3:31:16] [INFO] Cortex_M4_0: Downloading [META_IMAGE1] size [256964]
[2024/3/14 下午3:31:46] [INFO] Cortex_M4_0: SUCCESS!! File type META_IMAGE1 downloaded successfully to SFLASH.
[2024/3/14 下午3:31:46] [INFO] Cortex_M4_0: Disconnecting from device on COM port COM9...
[2024/3/14 下午3:31:46] [INFO] Cortex_M4_0: Flashing instance clean-up initiated...
[2024/3/14 下午3:31:46] [INFO] Cortex_M4_0: Instance deinitialized!
[2024/3/14 下午3:31:46] [SUCCESS] Program Load completed successfully.
```

Using TI Visualizer to Start the Radar:

1. Switch to normal mode by opening jumper pins J4 on the MT5C01-03.



or V2 board



2. Connect the radar to the computer and verify COM Port recognition and connection in the Device Manager. Before running the program each time, disconnect and reconnect the connection cable to reset the radar.
3. Open TI Visualizer (recommended version: TI Radar Toolbox 2.10.00.04).
File path:
directory\radar_toolbox_2_10_00_04\tools\visualizers\Applications_Visualizer\Industrial_Visualizer\Industrial_Visualizer.exe.
4. Select the device IWRL6432, and the program will automatically search for the COM Port, or it can be manually entered. For the Demo option, please select "x432 Out of Box Demo".

Connect to COM Ports

Device: xWRL6432

CLI COM: 43

DATA COM: 43

Demo: x432 Out of Box Demo

Connect

Not Connected

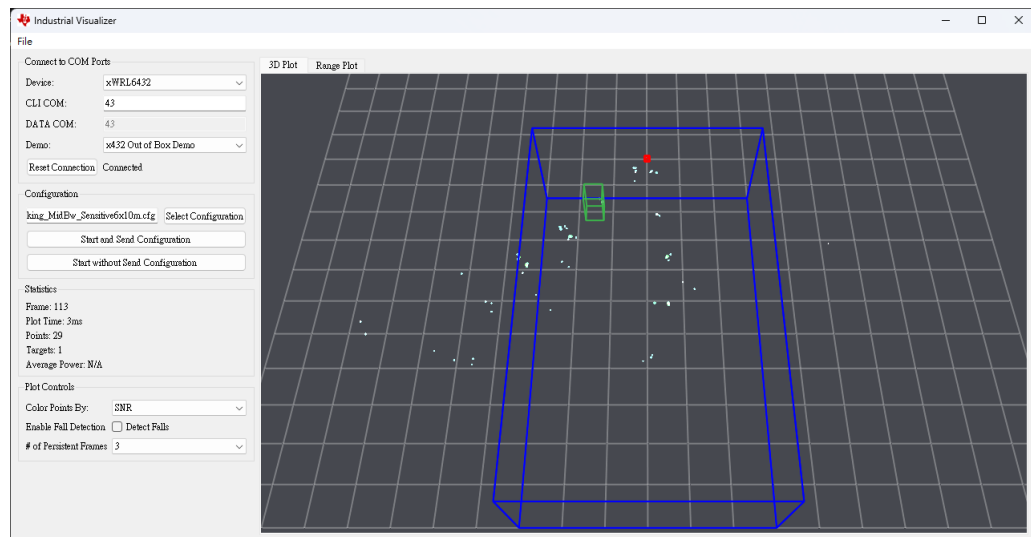
Configuration

Select Configuration

Start and Send Configuration

Start without Send Configuration

5. Press the “Connect” button to establish the connection.
6. Press the “Select Configuration” button to choose the radar configuration parameter file to be used. Please use the adjusted antenna configuration parameter file “aop_IWRL_Tracking_MidBw_Sensitive6x10m.cfg”.
7. Press “Start and Send Configuration” to send the command and start the radar.



• HISTORY CHANGE

Revision	Date	Description
Revision 1.0	2024-07-03	First version.