



a module solution provider

MT5C01-03

Radar Product

User Guide

Revision 1.0

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Operating MT5C01-03 with TI Visualizer

Flashing Firmware:

1. Original MT5C01-03 product outline is shows as the following

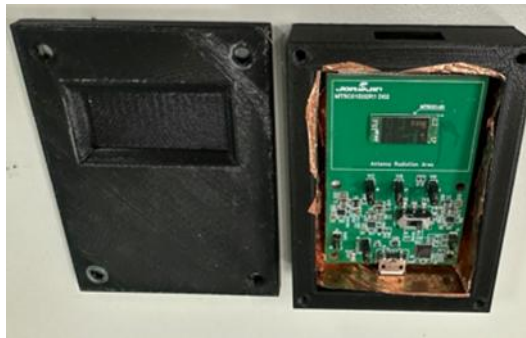


(Top View)



(Bottom View)

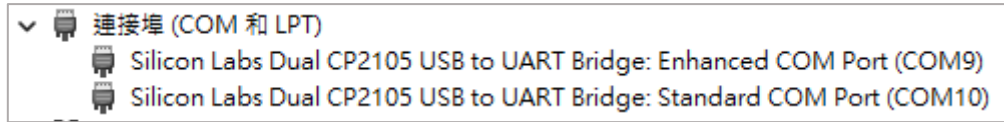
2. The inner view after detaching the case cover.



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



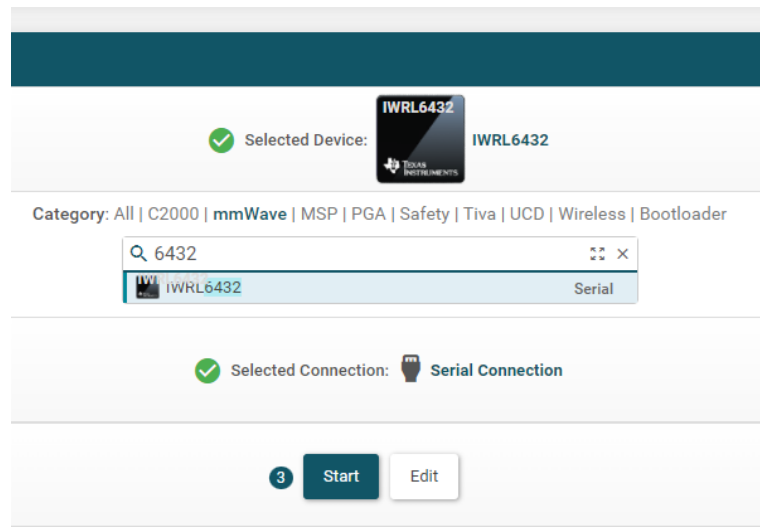
4. Connect MT5C01-03 to the computer and verify COM Port recognition and connection in the Device Manager. Before flashing firmware, disconnect and reconnect the connection cable to reset MT5C01-03.



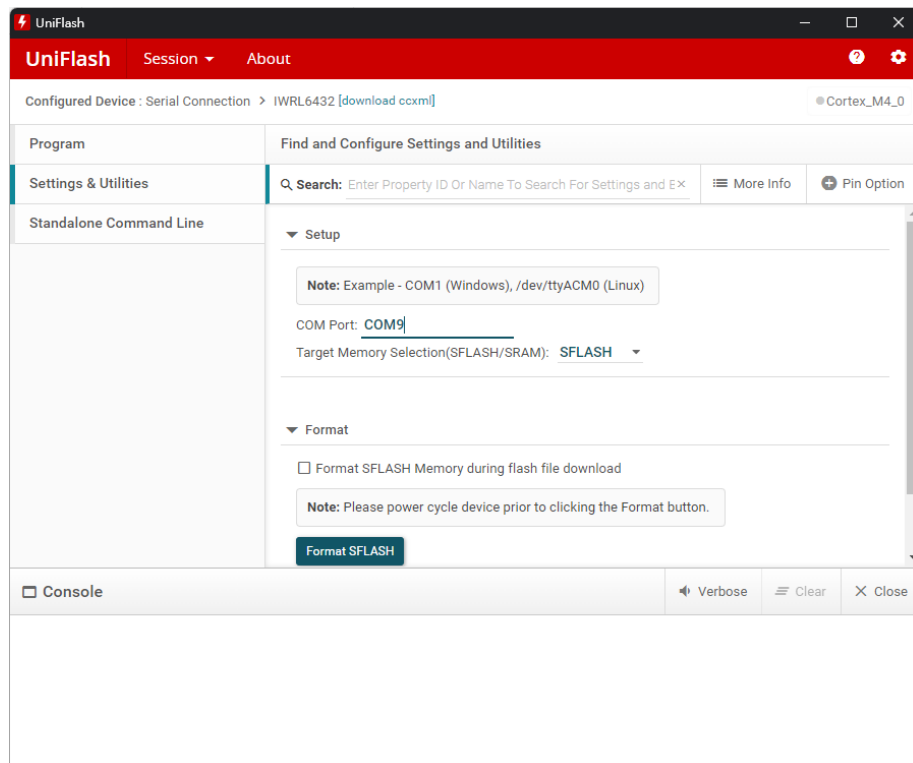
- Open the UniFlash application (version 8.3 or above).

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

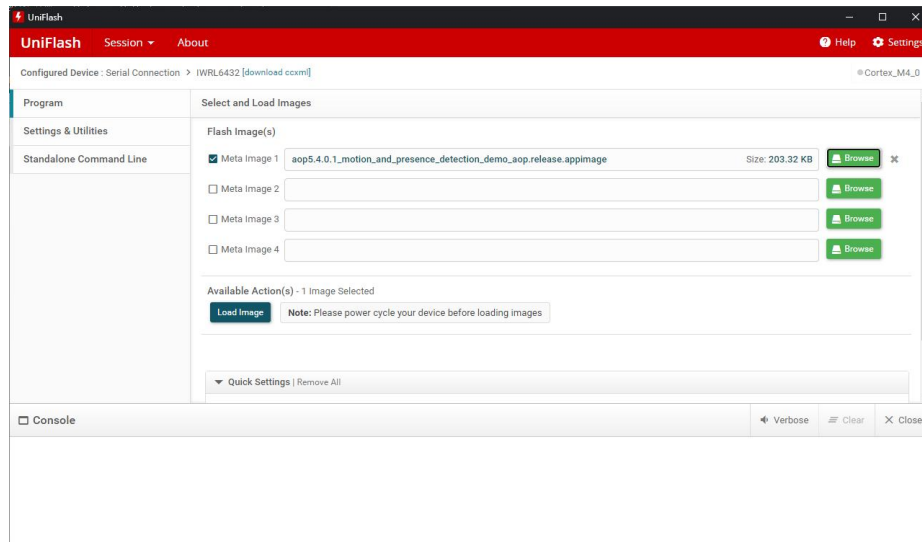
- Select the configuration for mmWave IWR6432.



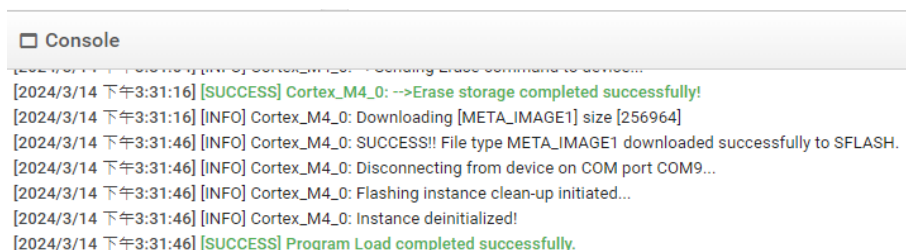
- Enter the number of the Enhanced COM Port in the "Setting & Utilities" page.



8. 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”.

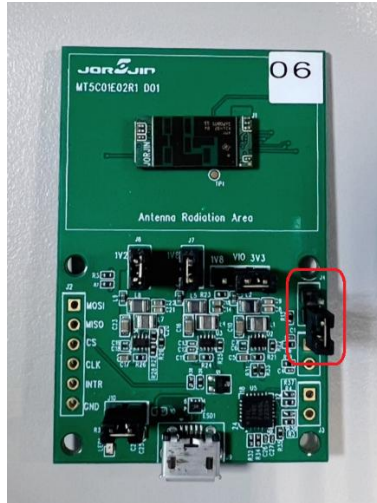


9. Press Load Image to start the programming process. Wait until the success message appears to complete the firmware writing process.



Using TI Visualizer to Start the Radar:

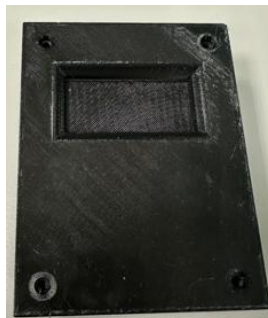
1. Switch to normal mode by opening jumper pins J4 on the MT5C01-03.



or V2 board



2. Re-assemble the board in case and then fix it by screws.



3. 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.
4. 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.
5. 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:

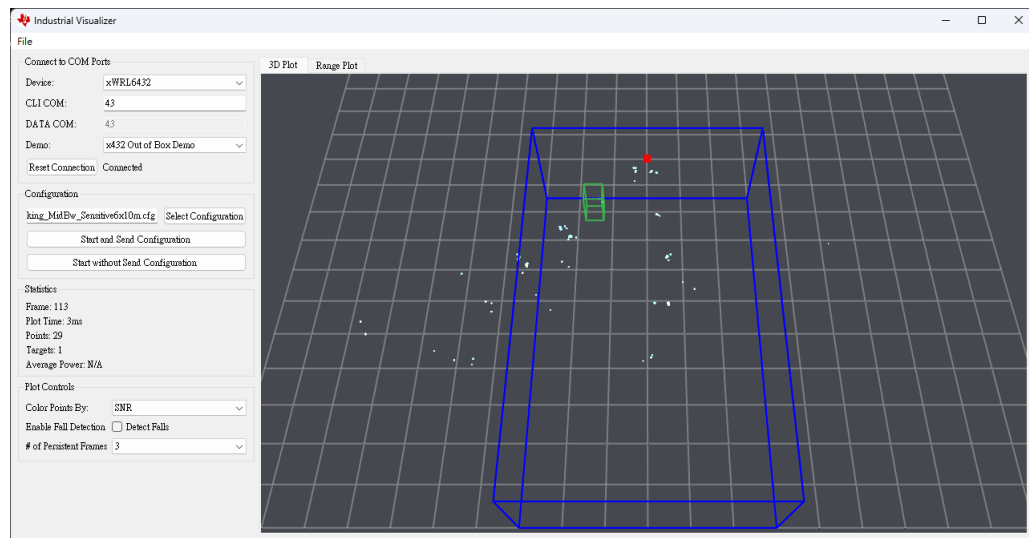
CLI COM:

DATA COM:

Demo:

Configuration

- Press the "Connect" button to establish the connection.
- 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".
- 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.

FCC

Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This device is not to be operated on aircraft except for the conditions listed on FCC CFR §15.255 (b).

IMPORTANT NOTE:

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance **20cm** between the radiator & your body.

IC

Industry Canada

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

- (1) This device may not cause interference.
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

Cet appareil contient des émetteurs / récepteurs exempts de licence qui sont conformes au (x) RSS (s) exemptés de licence d'Innovation, Sciences et Développement économique Canada. L'opération est soumise aux deux conditions suivantes:

- (1) Cet appareil ne doit pas provoquer d'interférences.
- (2) Cet appareil doit accepter toute interférence, y compris les interférences susceptibles de provoquer un fonctionnement indésirable de l'appareil.

This device is not to be operated on aircraft except for the conditions listed on ISED RSS-210 Annex J.1.

IMPORTANT NOTE:

IC Radiation Exposure Statement:

This equipment complies with IC RSS-102 radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated greater than 20 cm between the radiator & your body.

Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies

pour un environnement non contrôlé. Cet équipement doit être installé et utilisé à

plus de 20 cm entre le radiateur et votre corps.