



EVB1122 Waveform Configuration and Demonstration GUI Release Note

1. Overview

The EVB1122 Waveform Configuration and Demonstration GUI is specialized upper-computer software designed for the EVB1122 evaluation kit, aimed at assisting users in comprehensive performance and functionality evaluation of the ICL1122. The software not only provides rich chip signal configuration and visualization features but also offers functional demonstrations for indoor multiple human motion tracking and outdoor long-range target tracking applications, enabling users to easily develop mmWave radar algorithms based on the ICL1122. Through an intuitive graphical user interface, users can effortlessly configure and generate the desired mmWave radar waveforms while monitoring the output signals of the ICL1122 in real-time. Additionally, the software provides ample documentation and examples to help users quickly familiarize themselves with the operation and functionality of the software.

2. Release Contents

EVB1122 Waveform Configuration and Demonstration GUI (ICL1122) | v.1.1.1.0

3. System Requirements

3.1 Hardware Requirements

The EVB1122 Waveform Configuration and Demonstration GUI (ICL1122) | v.1.1.1.0 require the following hardware setup:

- EVB1122 development board
- USB Type C to Type A cable
- Computer

3.2 Software and Tools

The EVB1122 Waveform Configuration and Demonstration GUI (ICL1122) | v.1.1.1.0 require the following system setup:

- Operating System: Windows 10 64bit
- Driver: VCP_V1.5.0_Setup_W7_x64_64bits.exe
- Firmware: EVB1122 Firmware package
- Compilation Platform: Firmware Compilation and Debugging Platform Software (optional)

4. Features

- Display different waveforms of the mmWave chip under various configurations
- Display target sector diagram, energy sector diagram, and energy heat map
- Display basic information of the target
- Support recording and playback of sensor data
- Integrate indoor multiple human tracking
- and outdoor long-range target tracking demonstration programs
- Support displaying CFAR detection results
- Support IAP burning program
- Support generating firmware register configuration files
- Support configuring chip total radiated power display

5. Revision History

EVB1122 Waveform Configuration and Demonstration GUI v.1.1.1.0 Release (Release Date: 2024/3/1):
ICL1122

New Features:

- None

Changes and Corrections:

- Modified frequency bandwidth setting limitations and provided bandwidth setting suggestions through pop-ups.

Limitations:

- Unknown
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EVB1122 Waveform Configuration and Demonstration GUI v.1.1.0.0 Release (Release Date: 2024/1/4):
ICL1122

New Features:

- None

Changes and Corrections:

- Removed "Human Presence Detection" demonstration program;
- Updated the names of existing two demonstration programs to distinguish between "indoor" and "outdoor" application scenarios.

Limitations:

- Unknown
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EVB1122 Waveform Configuration and Demonstration GUI v.1.0.0.0 Release (Release Date: 2023/12/12):
ICL1122

New Features:

- Initial release

Changes and Corrections:

- None

Limitations:

- Unknown

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