

1. Overview

The EVB1122 evaluation kit is designed for assessing the electrical performance, application functions, and other characteristics of the 24 GHz millimeter-wave radar SoC ICL1122. This kit not only provides functional demonstrations of the ICL1122 in applications such as indoor multiple human tracking and outdoor long-range target tracking but also simplifies the firmware update process by supporting the In-Application Programming (IAP) function, allowing users to easily update the firmware without requiring a burner.

2. Release Contents

The EVB1122 Evaluation Kit includes:

- EVB1122 evaluation board suite and hardware schematics
- EVB1122 Waveform Configuration and Demonstration GUI v1.1.1.0 and its user manual
- EVB1122 Firmware package, consisting of two versions (one integrating Data Transfer, Indoor Multiple Human Motion Tracking, and Outdoor Long-Range Target Tracking functionalities; and an open-source data transfer firmware for developing offline or embedded algorithms)
- EVB1122 Evaluation Kit User Manual

3. System Requirements

3.1 Hardware Requirements

The EVB1122 development kit requires the following hardware setup:

- USB Type C to Type A cable
- Computer
- MCU burner (optional)

3.2 Software and Tools

The EVB1122 development kit requires the following operating system and platform:

- Operating System: Windows 10 64bit
- Driver: VCP_V1.5.0_Setup_W7_x64_64bits.exe
- Compilation Platform: MCU Compilation Platform Software

4 Features

- User-friendly interface
- Flexible parameter configuration
- Indoor single/multiple moving human detection
- Outdoor long-range target tracking
- Chip total radiated power display configuration

5 Revision History

EVB1122 Evaluation Kit Rev.1.0 Release (Release Date: 2024/3/1): ICL1122

New Features:

- Initial release

Changes and Corrections:

- None

Limitations:

- Unknown

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