

Evaluation Kits

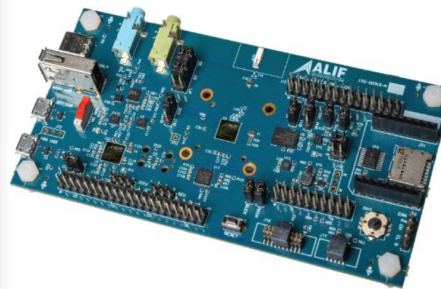
Ensemble E1C DevKit

Get started with the Ensemble E1C DevKit

The Ensemble E1C DevKit is a cost-effective, single-board platform that brings out all signals on the E1C MCU to easily access pins for power and performance profiling, prototyping, and more. The E1C MCU on the board has a Cortex M55 CPU core with Helium-M Vector Extension, operating at 160 MHz, an Ethos-U55 neural network processor core with 128 MACs per cycle, 2MB of SRAM and 1.9MB of NVM, off-chip OSPI flash and PSRAM memory devices (64MB and 32MB respectively), plus a variety of digital and analog interfaces.

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DK-E1C Quick Start Guide

(v14) This Quick Start Guide describes how to set up your DevKit and where to download the proper CMSIS Device Family Pack (DFP) and VS Code template so you can do a simple example design and debug it using the on-board Segger J-Link debugger.

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Alif Security Toolkit

Quick Start Guide (v3.2) shows how to install the Alif Security Toolkit (SETOOLS) for Ensemble and Balletto devices and shows some common commands used during application development.

STOP: Users of DK-B1 kits with A3 revision silicon should NOT update to version 1.109.00! Please reference the [Documentation Archive Library](#) for previous versions.

NOTE: Beginning with the V1.107.00 release and onwards, the default tools configuration for the target device is the Ensemble E8 device used on the Ensemble E8 DevKit. If you are using any other kit or your own board, you will need to select the correct target device. See Section 4 of the latest Alif Security Toolkit Quick Start Guide for details on different ways to do this.

Alif Security Toolkit (v1.110.00) for use with the Ensemble and Balletto devices or evaluation kits. After downloading your Toolkit, be sure to update your board to teSystemPackage utility.

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Alif Security Toolkit User Guide

(v1.110.0) This user guide describes all of the commands in the Alif Security Toolkit (SETOOLS) for Ensemble and Balletto devices.

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Alif SE Host Services API Archive

(v1.110.00) This archive contains source code for the Alif SE Host Services API software release.

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Alif SVD for Ensemble & Balletto Microcontrollers

This file contains CMSIS System View Description (CMSIS-SVD) files for all Alif Ensemble and Balletto devices. These SVD files are current as of March 30th, 2026.

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Ensemble EIC DevKit Schematics

Schematics for the current Revision D of the Ensemble DK-E8 DevKit that uses A7 silicon.

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Ensemble EIC DevKit Altium Files

Altium files for the current Revision D of the Ensemble DK-EIC DevKit.

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Ensemble EIC DevKit Bill of Materials

Bill of materials for the current Revision D of the Ensemble DK-EIC DevKit that uses A7 silicon.

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Ensemble EIC Databrief

(V1.6) Databrief for the Ensemble EIC.

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