EVM User's Guide: SK-LCD3

SK-LCD3 Evaluation Module

Description

The SK-LCD3 800x1280 DSI LCD display accessory kit is an add-on accessory for the starter kit evaluation modules (EVMs) of AM62P, AM62L processors (SK-AM62P-LP, TMDS62LEVM, and so forth), to add touch and display functions for the evaluation of HMI, industrial PC, and other use cases requiring display. The TFT LCD screen is a 7.0" display with WUXGA resolution (800x1280) and supports capacitive touch.

Get Started

1. Order the LCD at SK-LCD3
2. Download the LCD Design files.
3. Read this EVM User's Guide

Features

- 7.0-inch TFT LCD Display with 800 × 1280 WXGA resolution
- Capacitive Touch Panel with multi-point touch support
- MIPI DSI Interface for high-speed video connectivity
- Manual Control Buttons for brightness adjustment and power on/off

Applications

- Smart home devices
- Human machine interface (HMI)
- Smart meter

SK-LCD3 EVM Module

1 Evaluation Module Overview

1.1 Introduction

This guide explains how to implement and operate the SK-LCD3 display accessory kit with Texas Instruments Sitara™ processor EVMs. The SK-LCD3 is a versatile device that can incorporate advanced display and touch capabilities into embedded system prototypes and commercial applications. The following sections explain the basic hardware architecture and hardware connections of your display evaluation setup.

1.2 Kit Contents

This package includes:

- SK-LCD3 EVM
- Standoffs And Fasteners

1.3 Specification

- Display Type: 7.0-inch TFT-LCD module with 800 × 1280 WXGA resolution and capacitive touch panel
- Interface: MIPI-DSI 4-lane data interface (Data [3:0]) with clock enable for high-speed video transmission
- Touch Controller: ILI2511 capacitive touch panel controller with I2C communication and interrupt support
- Backlight Control: RT8511B LED driver with adjustable brightness control (BRIGHT+ or BRIGHT-) and ON or OFF functionality
- Power supply: 12V External Power Input with standard DC connector

1.4 Device Information

The SK-LCD3 is an Evaluation Module (EVM) featuring a 7.0-inch TFT-LCD display with integrated capacitive touch functionality. This development platform is designed to demonstrate and evaluate LCD display capabilities with MIPI-DSI interface connectivity. The EVM incorporates an HT66F30-1 microcontroller for system control, RT8511B LED driver for backlight management, and ILI2511 touch controller for multi-touch input detection.

The module provides a comprehensive design for developers working on display applications, offering multiple interface options including MIPI data lanes, I2C communication, and various control signals. With built-in power management featuring DC-DC conversion and support for both 3.3V and 12V power domains, the SK-LCD3 EVM serves as a reference design for integrating high-quality display design into embedded systems and consumer electronics applications.

2 Revisions and Applicable EVM

Table 2-1 lists the various SK-LCD3 EVM PCB design revisions, and Applicable EVM. The specific PCB revision is indicated in silkscreen on the PCB and the specific assembly variant is indicated with an additional sticker label.

Table 2-1. Revisions and Applicable EVM

OPN	Revision	Description	Applicable EVM
SK-LCD3	Rev A	Production version	• SK-AM62P-LP • TMDS62LEVM

3 Hardware

3.1 Additional Images

Figure 3-1. LCD Top Side

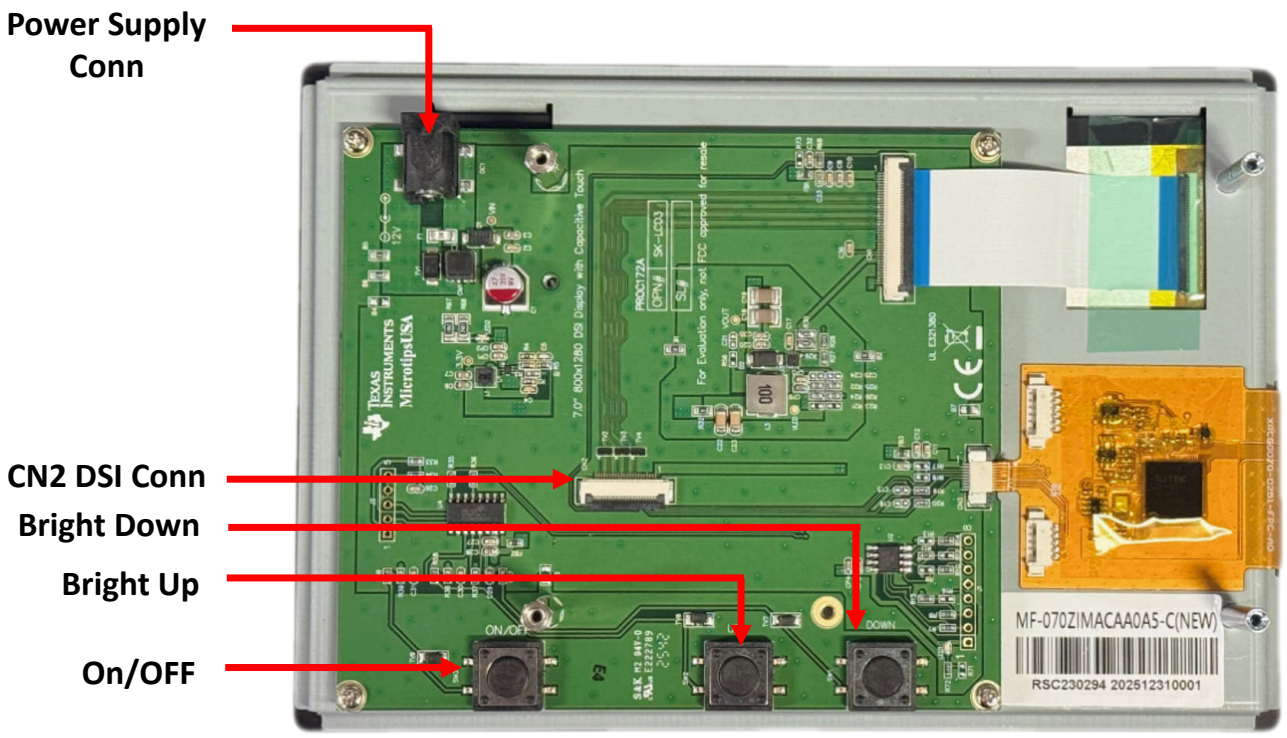

Figure 3-2. LCD Bottom Side

3.2 System Description

The SK-LCD3 kit consists of a 7.0-inch 800x1280 pixels TFT LCD and an adapter board. The adapter board converts the 40 pin LCD interface connections to 22 pin interfaces compatible with Sitara MPU EVM DSI connector. The adapter board also has an LED driver circuit to source the LCD backlight and a MCU to control the backlight enable and brightness of the LCD through push buttons.

3.3 Functional Block Diagram

Figure 3-3 shows the SK-LCD3 functional block diagram. The adapter board interfaces with the LCD panel using CN1, CN3 and BL connectors in the adapter board. The LCD kit interfaces with the EVM using CN2 connector on the LCD adapter board.

SK-LCD3 Block diagram

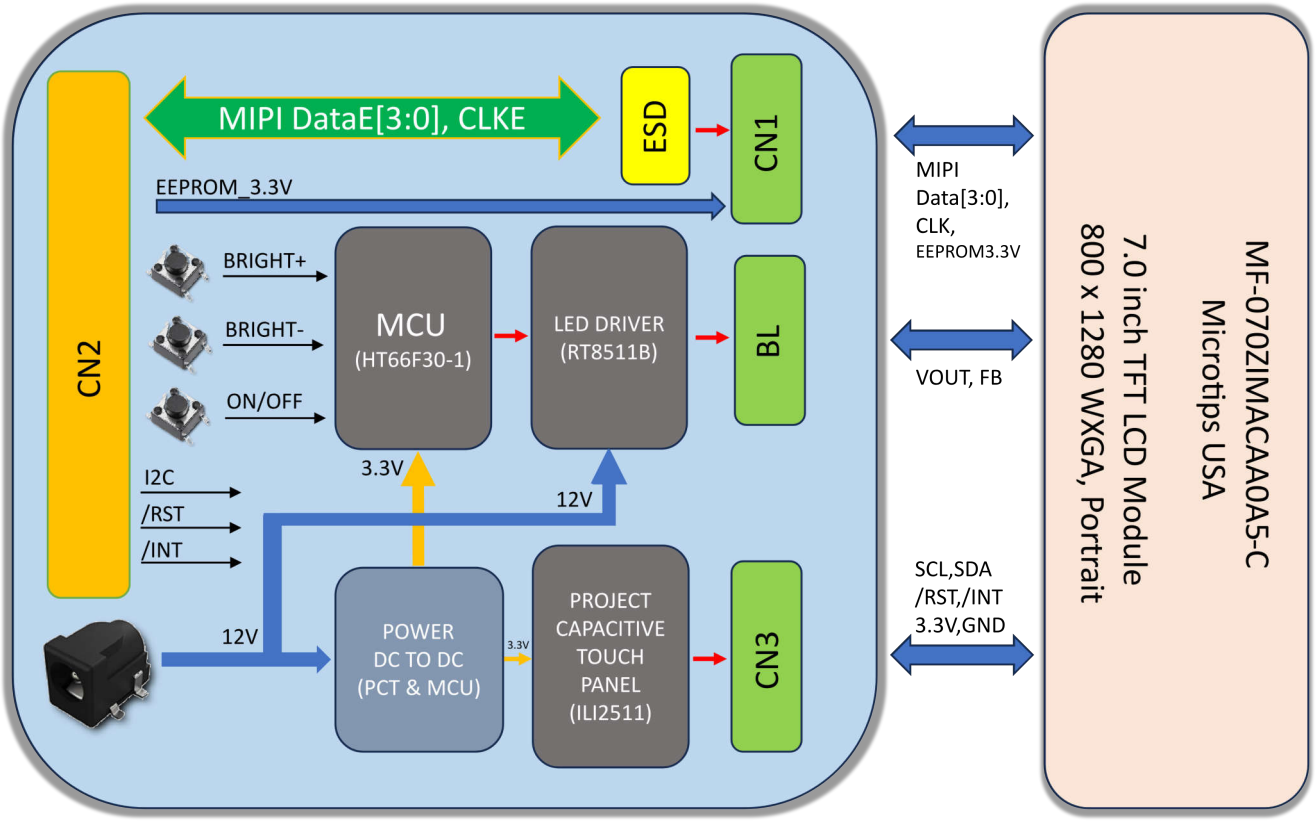

Figure 3-3. Functional Block Diagram

3.4 Power Block Diagram

An external 12V power adapter powers the LCD. There is a 3.3V buck converter on the adapter board to source the MCU and touchscreen. The EVM powers the EEPROM and LCD module. The backlight driver on the adapter board provides the required voltage and current to the LCD backlight. The MCU controls the enable and brightness of the LCD.

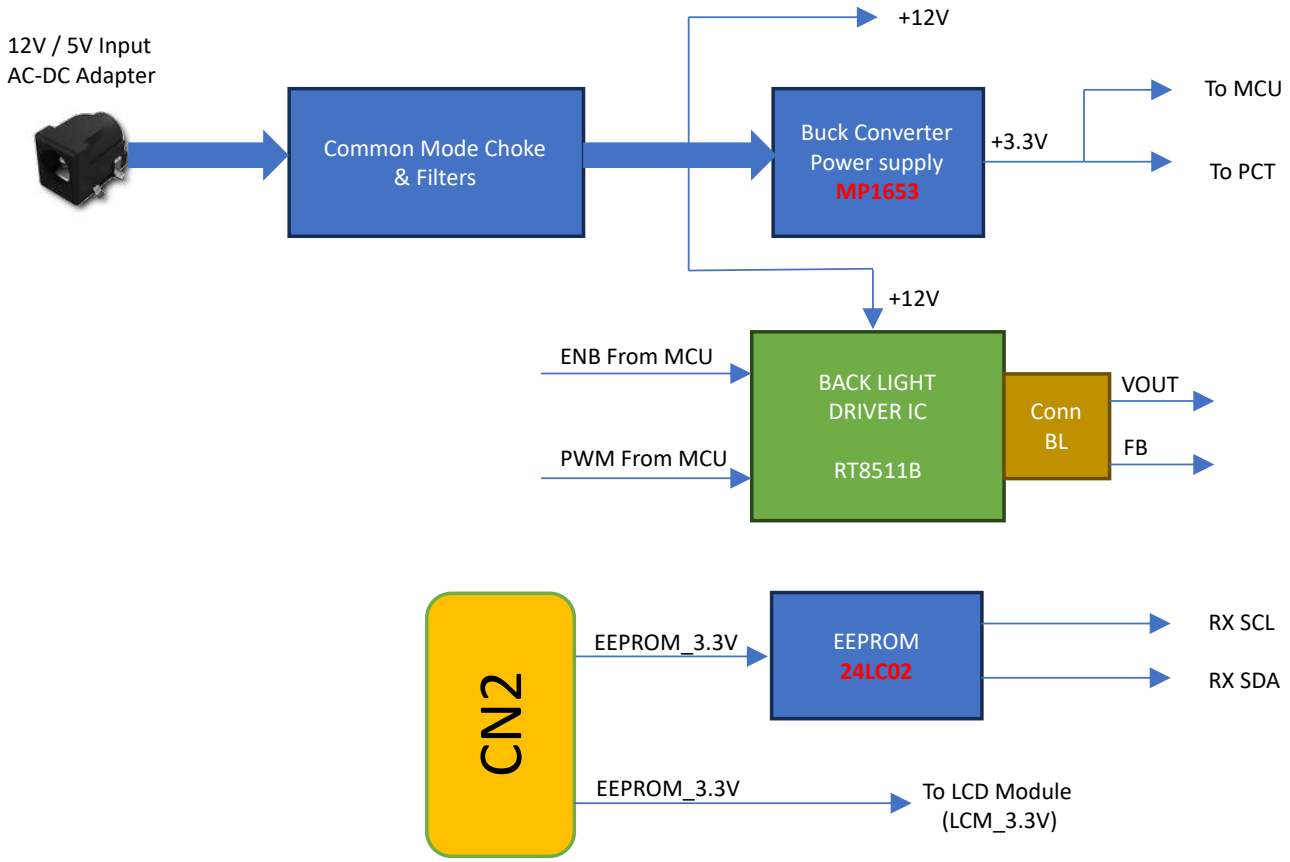

Figure 3-4. Power Block Diagram

3.5 Setup

3.5.1 LCD and EVM Connectivity

The SK-AM62P-LP evaluation module and SK-LCD3 display assembly are interfaced through a 22-pin same-side contacts flat flexible cable (Manufacturer: Molex, Part Number: 0150200237). The flat flex cable connects to connector CN2 on the SK-LCD3 display module and to connector J25 (DSI) on the SK-AM62P-LP evaluation module. The evaluation module is mechanically secured to the LCD assembly using the standoffs and fasteners provided in the development kit. For power requirements, the SK-LCD3 display module requires a 12V external power supply connected to connector DC1.

Note

Verify that the pin 1 connection is maintained on the same side of the cable.

TI recommends using 12V external power adapter to power up the LCD **MFR: CUI, PN: SDI65-12-UD-P5**.

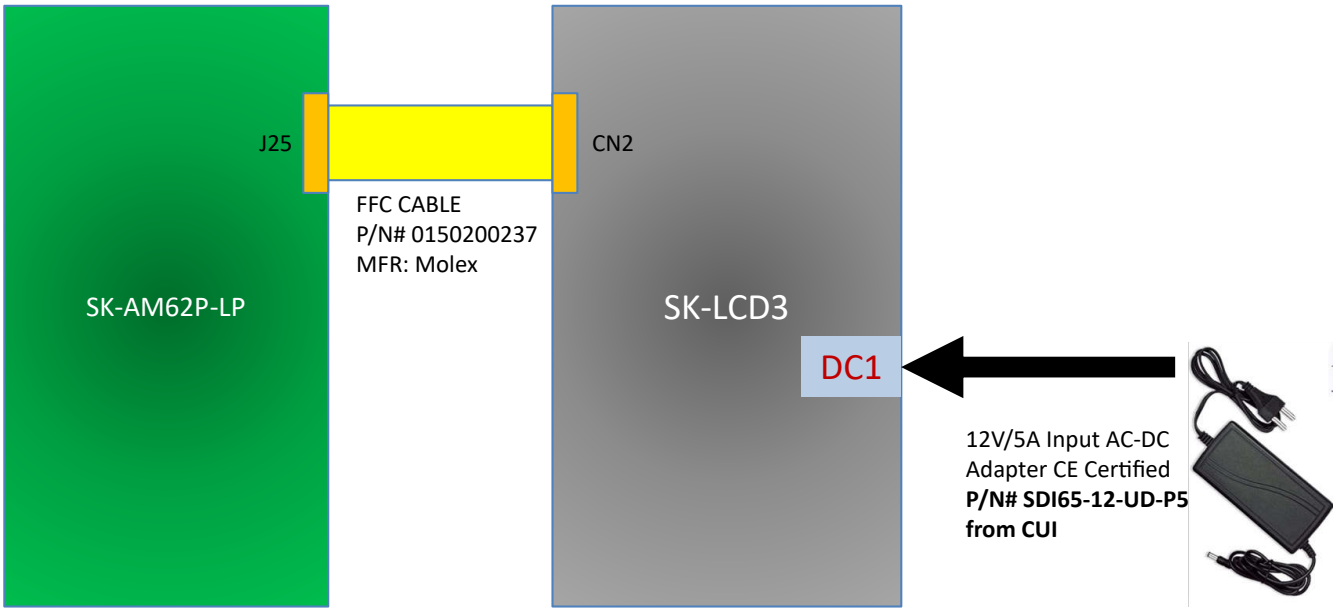

Figure 3-5. LCD and EVM Connection Diagram

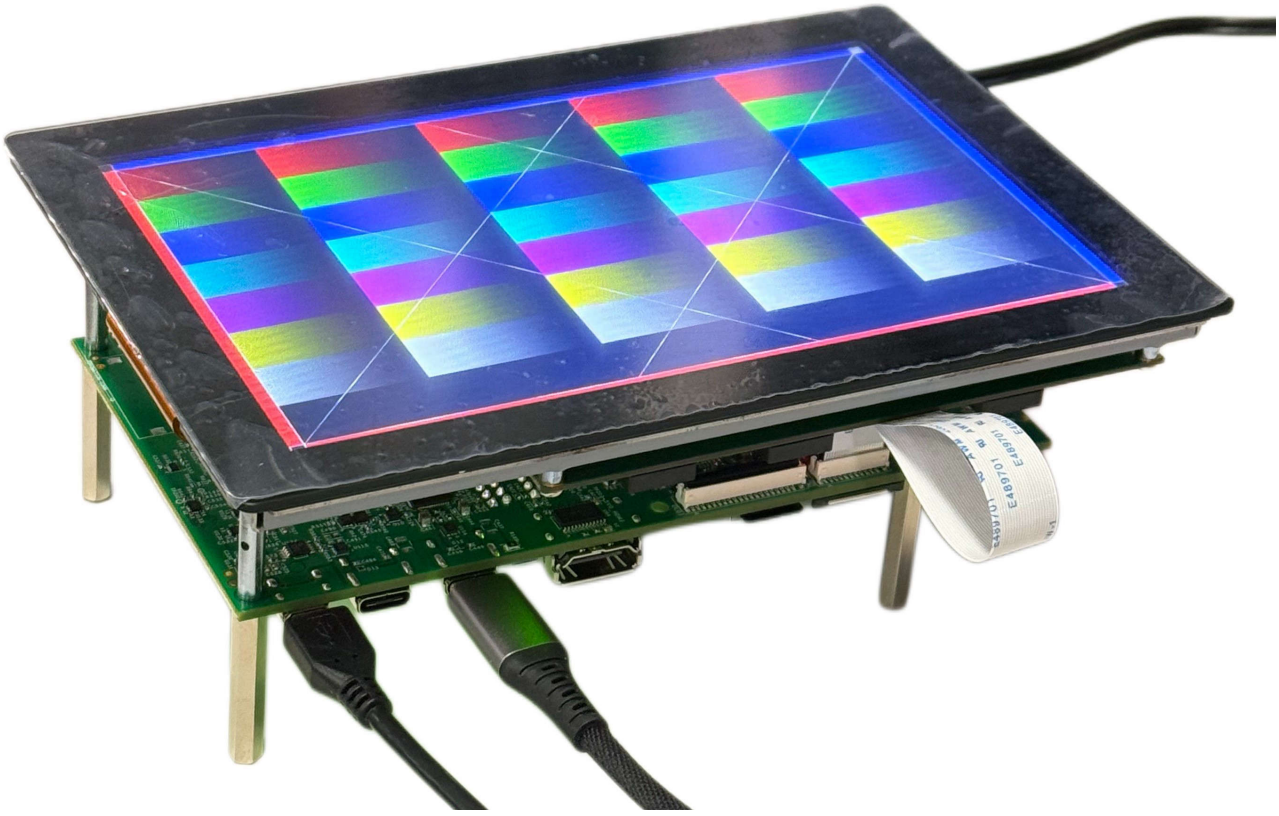

Figure 3-6. LCD and EVM Assembly

3.6 Interface Signal Mapping

The following table provides the complete pin-to-pin signal mapping between the DSI connector (J25) of the SK-AM62P-LP EVM and the interface connector (CN2) of the SK-LCD3 display module. This pinout definition

allows for proper signal routing for power delivery, I2C communication, GPIO control, and high-speed MIPI DSI differential data transmission through the 22-pin flat flexible cable interconnect.

Table 3-1. LCD and EVM Connector Pinout

Pin Number	EVM DSI Connector	LCD Connector
1	VCC_3V3_SYS	EEPROM_3.3V
2	SoC_I2C0_SDA	RX_SDA
3	SoC_I2C0_SCL	RX_SCL
4	DGND	GND
5	DSI_GPIO1	PCT_INT1
6	DSI_GPIO0	PCT_RST1
7	DGND	GND
8	DSI_TX3_P	MIPI_3P
9	DSI_TX3_N	MIPI_3N
10	DGND	GND
11	DSI_TX2_P	MIPI_2P
12	DSI_TX2_N	MIPI_2N
13	DGND	GND
14	DSI_TXCLK_P	MIPI_CLKP
15	DSI_TXCLK_N	MIPI_CLKN
16	DGND	GND
17	DSI_TX1_P	MIPI_1P
18	DSI_TX1_N	MIPI_1N
19	DGND	GND
20	DSI_TX0_P	MIPI_0P
21	DSI_TX0_N	MIPI_0N
22	DGND	GND

4 Hardware Design Files

4.1 Schematics

Hardware design files including schematics, PCB layouts, and Bill of Materials (BOM) can be found at the Design files.

4.2 PCB Layouts

Hardware design files including schematics, PCB layouts, and Bill of Materials (BOM) can be found at the Design files.

4.3 Bill of Materials (BOM)

Hardware design files including schematics, PCB layouts, and Bill of Materials (BOM) can be found at the Design files.

5 EMC, EMI, and ESD Compliance

5.1 Compliance and Certifications

Note

Do not exceed the three meter maximum-length of the IO cables.

Components installed on the product are sensitive to Electrostatic Discharge (ESD). Use this product in an ESD controlled environment. For example, a temperature and humidity-controlled environment can limit the buildup of ESD. Use ESD protection such as wrist straps and ESD mats when interfacing with the product.

The user is expected to take all precautions such as grounding themselves using an ESD wrist strap and wearing an ESD coat and footwear. Verify that the lab has an ESD safe mat and ESD safe testing tables.

The product is used in the basic electromagnetic environment as in laboratory conditions, and the applied standard is as per EN IEC 61326-1:2021.

6 Additional Information

6.1 Trademarks

Sitara™ is a trademark of Texas Instruments.
All trademarks are the property of their respective owners.

7 Revision History

NOTE: Page numbers for previous revisions may differ from page numbers in the current version.

Changes from Revision * (February 2026) to Revision A (July 2026)	Page
• Added SK-LCD3 to the header	0

STANDARD TERMS FOR EVALUATION MODULES

1. *Delivery:* TI delivers TI evaluation boards, kits, or modules, including any accompanying demonstration software, components, and/or documentation which may be provided together or separately (collectively, an “EVM” or “EVMs”) to the User (“User”) in accordance with the terms set forth herein. User's acceptance of the EVM is expressly subject to the following terms.

   1.1 EVMs are intended solely for product or software developers for use in a research and development setting to facilitate feasibility evaluation, experimentation, or scientific analysis of TI semiconductors products. EVMs have no direct function and are not finished products. EVMs shall not be directly or indirectly assembled as a part or subassembly in any finished product. For clarification, any software or software tools provided with the EVM (“Software”) shall not be subject to the terms and conditions set forth herein but rather shall be subject to the applicable terms that accompany such Software

   1.2 EVMs are not intended for consumer or household use. EVMs may not be sold, sublicensed, leased, rented, loaned, assigned, or otherwise distributed for commercial purposes by Users, in whole or in part, or used in any finished product or production system.

2 *Limited Warranty and Related Remedies/Disclaimers*:

   2.1 These terms do not apply to Software. The warranty, if any, for Software is covered in the applicable Software License Agreement.

   2.2 TI warrants that the TI EVM will conform to TI's published specifications for ninety (90) days after the date TI delivers such EVM to User. Notwithstanding the foregoing, TI shall not be liable for a nonconforming EVM if (a) the nonconformity was caused by neglect, misuse or mistreatment by an entity other than TI, including improper installation or testing, or for any EVMs that have been altered or modified in any way by an entity other than TI, (b) the nonconformity resulted from User's design, specifications or instructions for such EVMs or improper system design, or (c) User has not paid on time. Testing and other quality control techniques are used to the extent TI deems necessary. TI does not test all parameters of each EVM. User's claims against TI under this Section 2 are void if User fails to notify TI of any apparent defects in the EVMs within ten (10) business days after delivery, or of any hidden defects with ten (10) business days after the defect has been detected.

   2.3 TI's sole liability shall be at its option to repair or replace EVMs that fail to conform to the warranty set forth above, or credit User's account for such EVM. TI's liability under this warranty shall be limited to EVMs that are returned during the warranty period to the address designated by TI and that are determined by TI not to conform to such warranty. If TI elects to repair or replace such EVM, TI shall have a reasonable time to repair such EVM or provide replacements. Repaired EVMs shall be warranted for the remainder of the original warranty period. Replaced EVMs shall be warranted for a new full ninety (90) day warranty period.

WARNING

Evaluation Kits are intended solely for use by technically qualified, professional electronics experts who are familiar with the dangers and application risks associated with handling electrical mechanical components, systems, and subsystems.

User shall operate the Evaluation Kit within TI’s recommended guidelines and any applicable legal or environmental requirements as well as reasonable and customary safeguards. Failure to set up and/or operate the Evaluation Kit within TI’s recommended guidelines may result in personal injury or death or property damage. Proper set up entails following TI’s instructions for electrical ratings of interface circuits such as input, output and electrical loads.

NOTE:

EXPOSURE TO ELECTROSTATIC DISCHARGE (ESD) MAY CAUSE DEGREDATION OR FAILURE OF THE EVALUATION KIT; TI RECOMMENDS STORAGE OF THE EVALUATION KIT IN A PROTECTIVE ESD BAG.

3 *Regulatory Notices:*

3.1 *United States*

3.1.1 *Notice applicable to EVMs not FCC-Approved:*

FCC NOTICE: This kit is designed to allow product developers to evaluate electronic components, circuitry, or software associated with the kit to determine whether to incorporate such items in a finished product and software developers to write software applications for use with the end product. This kit is not a finished product and when assembled may not be resold or otherwise marketed unless all required FCC equipment authorizations are first obtained. Operation is subject to the condition that this product not cause harmful interference to licensed radio stations and that this product accept harmful interference. Unless the assembled kit is designed to operate under part 15, part 18 or part 95 of this chapter, the operator of the kit must operate under the authority of an FCC license holder or must secure an experimental authorization under part 5 of this chapter.

3.1.2 *For EVMs annotated as FCC – FEDERAL COMMUNICATIONS COMMISSION Part 15 Compliant:*

CAUTION

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.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC Interference Statement for Class A EVM devices

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

FCC Interference Statement for Class B EVM devices

NOTE: 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 or more 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.*

3.2 *Canada*

3.2.1 *For EVMs issued with an Industry Canada Certificate of Conformance to RSS-210 or RSS-247*

Concerning EVMs Including Radio Transmitters:

This device complies with Industry Canada license-exempt RSSs. Operation is subject to the following two conditions:

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

Concernant les EVMs avec appareils radio:

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes: (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Concerning EVMs Including Detachable Antennas:

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication. This radio transmitter has been approved by Industry Canada to operate with the antenna types listed in the user guide with the maximum permissible gain and required antenna impedance for each antenna type indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

Concernant les EVMs avec antennes détachables

Conformément à la réglementation d'Industrie Canada, le présent émetteur radio peut fonctionner avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par Industrie Canada. Dans le but de réduire les risques de brouillage radioélectrique à l'intention des autres utilisateurs, il faut choisir le type d'antenne et son gain de sorte que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne dépasse pas l'intensité nécessaire à l'établissement d'une communication satisfaisante. Le présent émetteur radio a été approuvé par Industrie Canada pour fonctionner avec les types d'antenne énumérés dans le manuel d'usage et ayant un gain admissible maximal et l'impédance requise pour chaque type d'antenne. Les types d'antenne non inclus dans cette liste, ou dont le gain est supérieur au gain maximal indiqué, sont strictement interdits pour l'exploitation de l'émetteur

3.3 *Japan*

3.3.1 *Notice for EVMs delivered in Japan:* Please see http://www.tij.co.jp/lsds/ti_ja/general/eStore/notice_01.page 日本国内に輸入される評価用キット、ボードについては、次のところをご覧ください。

https://www.ti.com/ja-jp/legal/notice-for-evaluation-kits-delivered-in-japan.html

3.3.2 *Notice for Users of EVMs Considered "Radio Frequency Products" in Japan:* EVMs entering Japan may not be certified by TI as conforming to Technical Regulations of Radio Law of Japan.

If User uses EVMs in Japan, not certified to Technical Regulations of Radio Law of Japan, User is required to follow the instructions set forth by Radio Law of Japan, which includes, but is not limited to, the instructions below with respect to EVMs (which for the avoidance of doubt are stated strictly for convenience and should be verified by User):

1. Use EVMs in a shielded room or any other test facility as defined in the notification #173 issued by Ministry of Internal Affairs and Communications on March 28, 2006, based on Sub-section 1.1 of Article 6 of the Ministry's Rule for Enforcement of Radio Law of Japan,
2. Use EVMs only after User obtains the license of Test Radio Station as provided in Radio Law of Japan with respect to EVMs, or
3. Use of EVMs only after User obtains the Technical Regulations Conformity Certification as provided in Radio Law of Japan with respect to EVMs. Also, do not transfer EVMs, unless User gives the same notice above to the transferee. Please note that if User does not follow the instructions above, User will be subject to penalties of Radio Law of Japan.

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3.4 *European Union*

3.4.1 *For EVMs subject to EU Directive 2014/30/EU (Electromagnetic Compatibility Directive)*:

This is a class A product intended for use in environments other than domestic environments that are connected to a low-voltage power-supply network that supplies buildings used for domestic purposes. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

4 *EVM Use Restrictions and Warnings:*

4.1 EVMS ARE NOT FOR USE IN FUNCTIONAL SAFETY AND/OR SAFETY CRITICAL EVALUATIONS, INCLUDING BUT NOT LIMITED TO EVALUATIONS OF LIFE SUPPORT APPLICATIONS.

4.2 User must read and apply the user guide and other available documentation provided by TI regarding the EVM prior to handling or using the EVM, including without limitation any warning or restriction notices. The notices contain important safety information related to, for example, temperatures and voltages.

4.3 *Safety-Related Warnings and Restrictions:*

4.3.1 User shall operate the EVM within TI's recommended specifications and environmental considerations stated in the user guide, other available documentation provided by TI, and any other applicable requirements and employ reasonable and customary safeguards. Exceeding the specified performance ratings and specifications (including but not limited to input and output voltage, current, power, and environmental ranges) for the EVM may cause personal injury or death, or property damage. If there are questions concerning performance ratings and specifications, User should contact a TI field representative prior to connecting interface electronics including input power and intended loads. Any loads applied outside of the specified output range may also result in unintended and/or inaccurate operation and/or possible permanent damage to the EVM and/or interface electronics. Please consult the EVM user guide prior to connecting any load to the EVM output. If there is uncertainty as to the load specification, please contact a TI field representative. During normal operation, even with the inputs and outputs kept within the specified allowable ranges, some circuit components may have elevated case temperatures. These components include but are not limited to linear regulators, switching transistors, pass transistors, current sense resistors, and heat sinks, which can be identified using the information in the associated documentation. When working with the EVM, please be aware that the EVM may become very warm.

4.3.2 EVMs are intended solely for use by technically qualified, professional electronics experts who are familiar with the dangers and application risks associated with handling electrical mechanical components, systems, and subsystems. User assumes all responsibility and liability for proper and safe handling and use of the EVM by User or its employees, affiliates, contractors or designees. User assumes all responsibility and liability to ensure that any interfaces (electronic and/or mechanical) between the EVM and any human body are designed with suitable isolation and means to safely limit accessible leakage currents to minimize the risk of electrical shock hazard. User assumes all responsibility and liability for any improper or unsafe handling or use of the EVM by User or its employees, affiliates, contractors or designees.

4.4 User assumes all responsibility and liability to determine whether the EVM is subject to any applicable international, federal, state, or local laws and regulations related to User's handling and use of the EVM and, if applicable, User assumes all responsibility and liability for compliance in all respects with such laws and regulations. User assumes all responsibility and liability for proper disposal and recycling of the EVM consistent with all applicable international, federal, state, and local requirements.

5. *Accuracy of Information:* To the extent TI provides information on the availability and function of EVMs, TI attempts to be as accurate as possible. However, TI does not warrant the accuracy of EVM descriptions, EVM availability or other information on its websites as accurate, complete, reliable, current, or error-free.

6. *Disclaimers:*

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   8.2 *Specific Limitations.* IN NO EVENT SHALL TI'S AGGREGATE LIABILITY FROM ANY USE OF AN EVM PROVIDED HEREUNDER, INCLUDING FROM ANY WARRANTY, INDEMITY OR OTHER OBLIGATION ARISING OUT OF OR IN CONNECTION WITH THESE TERMS, , EXCEED THE TOTAL AMOUNT PAID TO TI BY USER FOR THE PARTICULAR EVM(S) AT ISSUE DURING THE PRIOR TWELVE (12) MONTHS WITH RESPECT TO WHICH LOSSES OR DAMAGES ARE CLAIMED. THE EXISTENCE OF MORE THAN ONE CLAIM SHALL NOT ENLARGE OR EXTEND THIS LIMIT.

9. *Return Policy.* Except as otherwise provided, TI does not offer any refunds, returns, or exchanges. Furthermore, no return of EVM(s) will be accepted if the package has been opened and no return of the EVM(s) will be accepted if they are damaged or otherwise not in a resalable condition. If User feels it has been incorrectly charged for the EVM(s) it ordered or that delivery violates the applicable order, User should contact TI. All refunds will be made in full within thirty (30) working days from the return of the components(s), excluding any postage or packaging costs.

10. *Governing Law:* These terms and conditions shall be governed by and interpreted in accordance with the laws of the State of Texas, without reference to conflict-of-laws principles. User agrees that non-exclusive jurisdiction for any dispute arising out of or relating to these terms and conditions lies within courts located in the State of Texas and consents to venue in Dallas County, Texas. Notwithstanding the foregoing, any judgment may be enforced in any United States or foreign court, and TI may seek injunctive relief in any United States or foreign court.

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Last updated 10/2025