

***CDC7005 (QFN Package)  
Evaluation Module Manual  
High Performance Analog/CDC***

*User's Guide*

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It is important to operate this EVM within the supply voltage range of 3 V and 3.6 V.

Exceeding the specified input range may cause unexpected operation and/or irreversible damage to the EVM. If there are questions concerning the input range, please contact a TI field representative prior to connecting the input power.

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During normal operation, some circuit components may have case temperatures greater than 45°C. The EVM is designed to operate properly with certain components above 60°C as long as the input and output ranges are maintained. These components include but are not limited to linear regulators, switching transistors, pass transistors, and current sense resistors. These types of devices can be identified using the EVM schematic located in the EVM User's Guide. When placing measurement probes near these devices during operation, please be aware that these devices may be very warm to the touch.

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# Read This First

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### ***About This Manual***

This manual explains how to use the CDC7005 evaluation module and to provide the guidelines to build the customer's own systems. The manual includes schematics, layout, bill of materials, and a software description.

### ***How to Use This Manual***

This document contains the following chapters:

- Chapter 1—Introduction
- Chapter 2—Quick Start
- Chapter 3—EVM Hardware
- Chapter 4—Serial Peripheral Interface (SPI) Software
- Chapter 5—Schematics, Board Layout, and Parts List

### ***Related Documentation From Texas Instruments***

- CDC7005 Data Sheet, SCAS685, Texas Instruments

### ***FCC Warning***

This equipment is intended for use in a laboratory test environment only. It generates, uses, and can radiate radio frequency energy and has not been tested for compliance with the limits of computing devices pursuant to subpart J of part 15 of FCC rules, which are designed to provide reasonable protection against radio frequency interference. Operation of this equipment in other environments may cause interference with radio communications, in which case the user at his own expense will be required to take whatever measures may be required to correct this interference.

### ***If You Need Assistance. . .***

If you need assistance with this device, please email  
**`clocks_apps@list.ti.com`**

# Contents

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<b>1</b>	<b>Introduction</b> .....	<b>1-1</b>
1.1	CDC7005 Functional Block Diagram .....	1-2
<b>2</b>	<b>Quick Start</b> .....	<b>2-1</b>
<b>3</b>	<b>EVM Hardware</b> .....	<b>3-1</b>
3.1	Board View and Connector Location .....	3-2
3.2	Hardware Configuration .....	3-2
3.2.1	Power Supply (P1, P2) .....	3-3
3.2.2	Onboard Switches and Indicators (SW1, SW2) .....	3-3
3.2.3	Programming Interfaces (J30) .....	3-3
3.2.4	Loop Filter (J32–J37) .....	3-4
3.2.5	High-Speed Outputs and Inputs .....	3-4
3.2.6	VCXO Inputs and Outputs .....	3-5
<b>4</b>	<b>Serial Peripheral Interface (SPI) Software</b> .....	<b>4-1</b>
4.1	Functional Description .....	4-2
4.2	Software Installation .....	4-3
<b>5</b>	<b>Application Level Circuit Diagram</b> .....	<b>5-1</b>
5.1	Application Level Circuit Diagram .....	5-2
5.1.1	Passive Loop Filter .....	5-2
5.1.2	Active Loop Filter—Internal Operational Amplifier .....	5-2
5.1.3	Active Loop Filter—External Operational Amplifier .....	5-4
<b>6</b>	<b>Parts List, Board Layouts, and Schematics</b> .....	<b>6-1</b>
6.1	Parts List .....	6-2
6.2	Board Layout .....	6-4
6.3	Schematics .....	6-10

# Figures

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---

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3-1	Board View .....	3-2
4-1	Screen View .....	4-2
5-1	CDC7005 With a Passive Loop Filter Configuration .....	5-2
5-2	CDC7005 With an Active Loop Filter Using a CDC7005 Integrated OPA .....	5-3
5-3	CDC7005 With an Active Loop Filter Using OPA341 .....	5-4
6-1	Component View and Silkscreen .....	6-4
6-2	Silkscreen – Top layer 1 .....	6-5
6-3	Top Side – Top layer 1 .....	6-7
6-4	Ground Plane – Layer 2 .....	6-7
6-5	Power Plane – Layer 3 .....	6-8
6-5	Bottom Side – Layer 4 .....	6-9

# Tables

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3-1	Filter Configurations .....	3-4
-----	-----------------------------	-----