



## ABSTRACT

This document provides all the necessary information to get started with software development on C2000. Links to documentation on software development and optimization are available. Web based development and software download links are also part of this. In addition references to key documents for understanding C2000 are provided.

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## Table of Contents

<b>1 Introduction</b> .....	<b>1</b>
<b>2 Software Documentation</b> .....	<b>1</b>
<b>3 Software Releases</b> .....	<b>2</b>
<b>4 References</b> .....	<b>2</b>

### Trademarks

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## 1 Introduction

C2000 real-time controllers are a portfolio of high-performance microcontrollers that are purpose-built to control power electronics and provide advanced digital signal processing for industrial and automotive applications. Software components to program various modules in C2000 MCUs are released as part of C2000 software releases.

## 2 Software Documentation

- If you are new to C2000, this document will help you understand the entire Software offering on C2000 and how to get started with software development, get an overview of Software development and various Software releases - [C2000™ Software Guide](#).
- If you are starting Software development on C28x CPU, start with this document to understand how to write optimized code for C28x CPU– [C2000™ C28x optimization Guide](#).
- If you want to leverage the co-processor for C28x, start with this document - Control Law Accelerator software development – [C2000™ CLA Software Development Guide](#).

### 3 Software Releases

There are multiple ways to get started with software on C2000. If you would like to start working online on ti.com, use TI Resource Explorer. Other option is to download the complete package onto your desktop and start development.

- C2000Ware – Core Software Development Kit for C2000. This provides a cohesive set of low level drivers, math and DSP related development software and documentation designed to minimize software development time.
  - Download from [C2000Ware](#)
  - View the online TI Resource Explorer for [C2000Ware TIREX](#)
- Digital Power Software Development Kit (DPSDK) - This provides a cohesive set of software infrastructure, tools, and documentation designed to minimize C2000 MCU based digital power system and software development time.
  - Download from [C2000WARE-DIGITALPOWER-SDK](#)
  - View the online TI Resource Explorer for [DPSDK TIREX](#)
- Motor Control Software Development Kit (MCSDK) - This provides a cohesive set of software infrastructure, tools, and documentation designed to minimize C2000 MCU based motor control system and software development time.
  - Download from [C2000WARE-MOTORCONTROL-SDK](#)
  - View the online TI Resource Explorer for [MCSDK TIREX](#)

### 4 References

- General information on C2000 real-time Control MCUs - <https://www.ti.com/c2000>
- C2000 Products - [C2000™ Products](#)
- C2000 Design and Development resources – [C2000™ Design & Development](#)
- The Key Technology Guide provides a deeper look into the components that differentiate the C2000™ MCU as it pertains to Real-time control systems - [C2000™ Key Technology Guide](#)

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