

## C2000 Digital Power Training Kit

(ACTIVE) TMDSC2KWRKSHPKIT

### Description

The Digital Power Training development kit provides an easy way for power engineers to explore and learn about digital power supply design. The board consists of two independent Buck power stages controlled via a single C2000 device. With the included lab training material, power supply designers can learn the steps to digitally controlled power including open loop control, digitally tuning and closing the control loop, and advanced control methods such as peak current mode control. Also included in the lab training material is development of a digital power supply using the C2000 Control Law Accelerator – a control loop oriented, dedicated secondary microprocessor designed for running fast, efficient control applications. This board offers a safe, desktop power level operating at VDC and includes an isolated USB interface for connection to a PC. The C2000 family of devices offer all of the necessary performance, memory and advanced peripherals enabling designers to build robust, high performance switch mode power supplies.



### Features

- Full digital control of multiple power conversion stages
- Peak Current Mode Control implementation
- Operates at input voltage of 9VDC
- Parallel operation of two buck converters
- Switchable resistive loads
- Digital voltmeter to measure and display output voltage values
- Step by step lab guide/manual with detailed explanations

### What's Included

- Digital Power Training developer's kit
- Getting Started Guide
- USB Cable and Power Supply