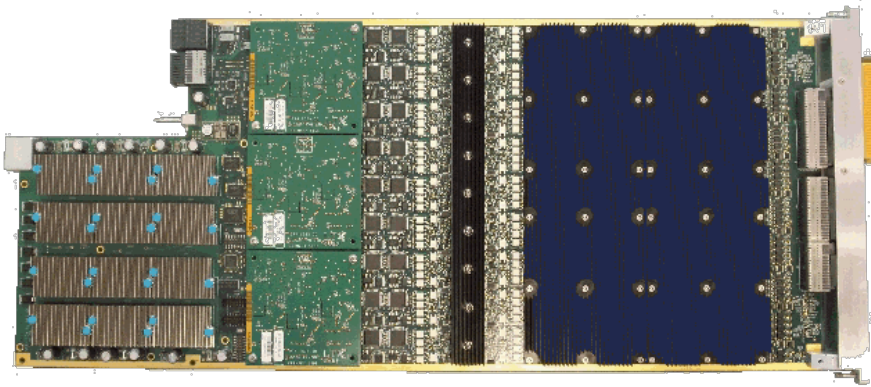


PMVI2 Instrument

Introduction



Automotive



Consumer



Flat Panel Display



IoT/IoV & Optoelectronics



Industrial & Medical



MCU



Mobility

Course Description

This eLearning material introduces the student to the Power Management V/I (PMVI2) instrument. The training will provide the student with an overview of the instrument, the major functional areas, the DPS and PCL ganging features, the power consumption spreadsheet and some programming best practices. On completion of the course, the student will be able to describe the components of the PMVI2, understand its theory of operation including ganging and power dissipation, add instrument resources to a program including ganging, and complete an LDO ganging test program. This is accomplished by a combination of multimedia presentations and interactive software demonstrations.

Course Outline

- Product Overview
- Functional Blocks and Theory of Operation
- Ganging Features
- Power Consumption Parameters
- Programming Test Examples

Course Length

- Self-paced – 3-4 hours typical depending on skill level

Prerequisites

- Six months test program experience
- Successful completion of the Unison Applications Programming Course

Recommended

- C or C++ programming
- Familiarity with Linux Operating System
- English - written and spoken

- 72 Channels Per Board
- 4-Quadrant Operation
- Max Voltage - 2.5 to +20 V
- Voltage measure accuracy to $\pm(0.02\% MV + 100 \mu V)$
- Up to $\pm 1A$ /Channel, gang to 16A
- Precision ADC

PMVI2 Instrument

Introduction

Course Modules

1 - Product Overview

On completion of this module the student will be able to:

- State on which systems the PMVI2 can be installed
- Identify target markets the PMVI2 is intended to meet
- Recognizes the difference between DPS and PCL Modes
- Summarize the key Operating Specifications of the PMVI2

2 - Functional Blocks and Theory of Operation

On completion of this module the student will be able to:

- List and locate the major functional areas of the PMVI2 instrument
- Describe the major functional areas of the instrument (DPS, PCL, PMV, TMU, and AUX bypass)
- Recognize how to calibrate the PVM for best measurement accuracy
- Identify unique PMVI2 functional features and proper usage

3 - Ganging Features

On completion of this module the student will be able to:

- Describe the DPS and PCL ganging capabilities
- Identify the programming methods to enable Fixed and Dynamic ganging

4 - Power Consumption Parameters

On completion of this module the student will be able to:

- Describe the DPS and PCL power consumption parameters
- Recognize the steps to reduce PMVI2 power consumption
- Demonstrate the ability to use the power consumption spreadsheet in an LDO programming test example

5 - Programming - Test Examples

On completion of this module the student will be able to:

- Add PMVI2 resources to an AdapterBoard Object using the Unison PackageTool
- Recognize the programming implications of PMVI2 operating power regions
- Recognize the features and benefits of the Unison Graphical Debug Tool (GDT)
- Complete LDO Output Voltage Accuracy and Load Regulation tests using an interactive programming demonstration

Course Viewing Requirements

To view the course, you must have:

- Browser supporting HTML5
- Audio-listening capabilities (such as a headset or speakers)
- Connection speed of at least 600 kbps

Registration

- To register, click on the register button or link.

 or [Register here](#)

- Enter your supervisor's e-mail and complete the form.
- When your registration is received, an account will be created and a link to our eLearning System with your login credentials will be sent to you.

Course Cost

- Free of charge for all Cohu Semiconductor Tester Customers

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