

ADALM2000

Advanced Active Learning Module

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User Guides

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Overview

Features and Benefits

Product Details

- Two-channel USB digital oscilloscope
- Two-channel arbitrary function generator
- 16-channel digital logic analyzer (3.3V CMOS and 1.8V or 5V tolerant, 100MS/s)
- 16-channel pattern generator (3.3V CMOS, 100MS/s)
- 16-channel virtual digital I/O
- Two input/output digital trigger signals for linking multiple instruments (3.3V CMOS)
- Single channel voltmeter (AC, DC, ±20V)
- Network analyzer – Bode, Nyquist, Nichols transfer diagrams of a circuit. Range: 1Hz to 10MHz
- Spectrum Analyzer – power spectrum and spectral measurements (noise floor, SFDR, SNR, THD, etc.)
- Digital Bus Analyzers (SPI, I²C, UART, Parallel)
- Two programmable power supplies (0...+5V , 0...-5V)

Documentation

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User Guides

User Guide for AD-M2KBNC-EBZ ADALM2000 BNC Adapter Board	WIKI	User Guide for AD-M2KPWR-EBZ, ADALM2000 Power Booster Board	WIKI	ADALM2000 Overview	WIKI
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Solutions Bulletins & Brochures

Active Learning Program for Students: Tools for Students, Makers, and Enthusiasts	PDF	476.7 K
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Product Highlight

ADALM2000 Active Learning Module	PDF	573.46 K
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Technical Articles

The World Is Analog—How Do I Obtain the Necessary Knowledge?!	Hands-On Learning Gets Real	Send the Lab Home
New Virtual Electronics Lab: How to Create an Oscilloscope Using Python and ADALM2000		

StudentZone Articles

ADALM2000 Simple Op Amps	The StudentZone is Open	ADALM2000 Measuring Loop Gain
ADALM2000 Diodes and Diode Circuits	ADALM2000 One Board - Multiple Instruments	A Complete Circuits Laboratory on Your Desk, in Your Backpack, and on the Go
ADALM2000 Activity: The BJT Connected as a Diode	ADALM2000: Differential Temperature Sensor	ADALM2000: Zener Diode Regulator
ADALM2000 Activity: Common Emitter Amplifier	ADALM2000 Activity: MOS Transistor Common Source Amplifier	ADALM2000 Activity: The MOS Transistor Connected as a Diode
ADALM2000 Activity: NMOS as a Current Mirror	ADALM2000 Activity: Frequency Response of a Common-Emitter BJT Amplifier	ADALM2000 Activity: Op Amp as Comparator
ADALM2000 Activity: Zero-Gain Amplifier (BJT)	ADALM2000 Activity: Zero-Gain Amplifier (MOS)	ADALM2000 Activity: BJT Current Mirror
ADALM2000 Activity: A Floating (2-Terminal) Current Source/Sink	ADALM2000 Activity: Regulated Voltage References	ADALM2000 Activity: The Emitter Follower (BJT)
ADALM2000 Activity: The Source Follower (NMOS)	ADALM2000 Activity: BJT Differential Pair	Activity: The Voltage Dependent Capacitance of the PN Junction
ADALM2000 Activity: Op Amp Settling Time	ADALM2000 Activity: The Transresistance Amplifier Input Stage	ADALM2000 Activity: Generating Sine Waves from Triangle Waves
ADALM2000 Activity: MOS Differential Pair	ADALM2000 Activity: Making an Operational Amplifier from Previous Blocks	ADALM2000 Activity: Amplifier Output Stages
New ADALM2000 Activity: CMOS Amplifier Stages	New ADALM2000 Activity: The CMOS Analog Switch	

Related Hardware (1)

Active Learning Kits

ADALM-BUCK-ARDZ
Companion board for Buck Converter Basics Active Learning lab exercise

Discussions

[Virtual Classroom](#)

Buy

Model	Description	Price	RoHS
ADALM2000 Production	Advanced Active Learning Module	\$200.00	Yes
AD-M2KCBL-EBZ Production	Cable assembly with keyed connectors	\$7.49	Yes

Back

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