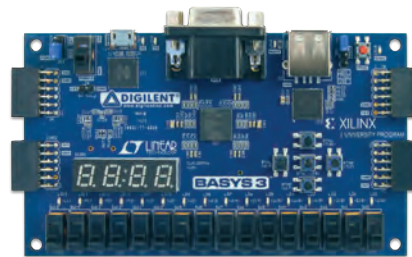
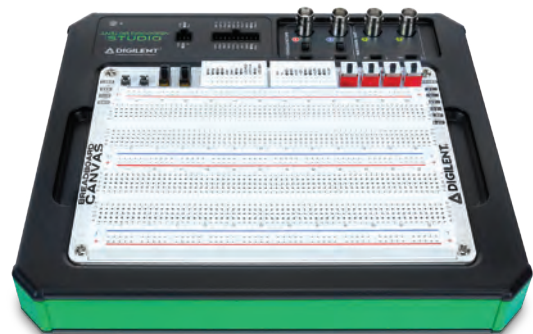


Digilent in Education

2024



 **DIGILENT®**



ES France - Département NI
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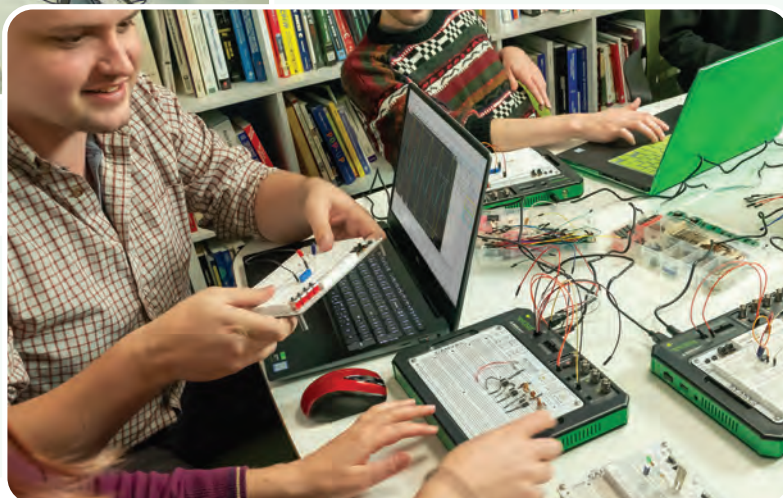
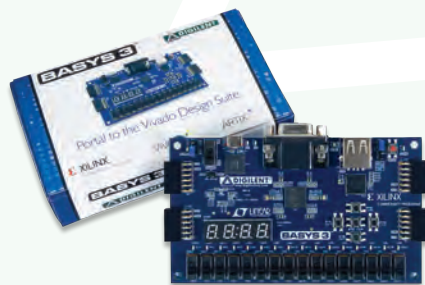


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Teaching with Digilent






























At Digilent, our mission has always been - and still is - to make engineering technologies understandable and accessible to all. We provide professors, lab managers and students with low-cost, fundamental tools and coursework to turn this mission into reality. Products like the portable Analog Discovery 3 mixed signal oscilloscope for teaching electronics and circuits, or the entry-level Basys 3 FPGA development board put the hardware in the student's hands for maximum engagement and growth in a traditional classroom setting or remote.

As NI's myDAQ, myRIO, VirtualBench, and ELVIS III products become legacy products, equip yourself with Digilent's low cost, flexible options that make practical, hands-on teaching possible, whether classes are in person or remote.



Solutions for Engineering Curricula

Collaborating with educators from around the world, Digilent has taken feedback to create learning tools that can work in multiple academic disciplines. In analog and circuits courses, portable test devices equipped with our popular WaveForms software allow students to use multiple test instruments (both input and output) on their PC or Mac while giving freedom and flexibility to complete projects either in the classroom or work on them at home. Digilent's FPGA development boards (AMD/Xilinx) give hands-on application experience in digital and computer architecture courses by providing multiple I/O and peripheral connection options. All of Digilent's education offerings can be extrapolated past graduation and the same skills can be applied in almost any professional setting.

Product Course	Analog Discovery 3 	Analog Discovery Studio 	Analog Discovery Pro 5250 	Zybo Z7 	Basys 3 
Analog					
Digital					
Power					
Robotics					
Controls		 *			
Computer Architecture					
Projects					

* While used in conjunction with a Cmod S7



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For users of NI's myDAQ:

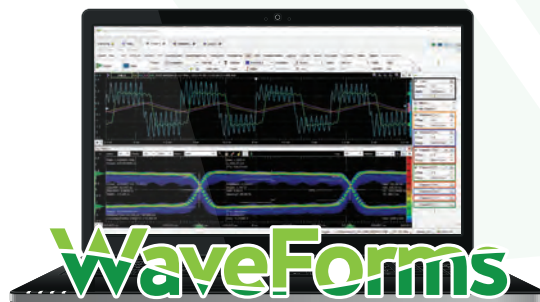
ANALOG DISCOVERY 3

Discover More.



Digilent's Analog Discovery 3 is a versatile mainstay of EE/ECE labs and classrooms in over 200 universities in North America alone. This portable dynamo fits inside a student's pocket, but when connected to a PC, Mac, or Linux machine via USB-C, utilizes our intuitive test software, WaveForms, to act as an oscilloscope, logic analyzer, waveform generator, and more.

The AD3 is a key enabler for conducting engineering education remotely. It allows students to power their breadboards and take measurements just as if they were physically at a lab bench on campus.



WaveForms software allows for access to 10+ test instruments.

Scope Inputs:

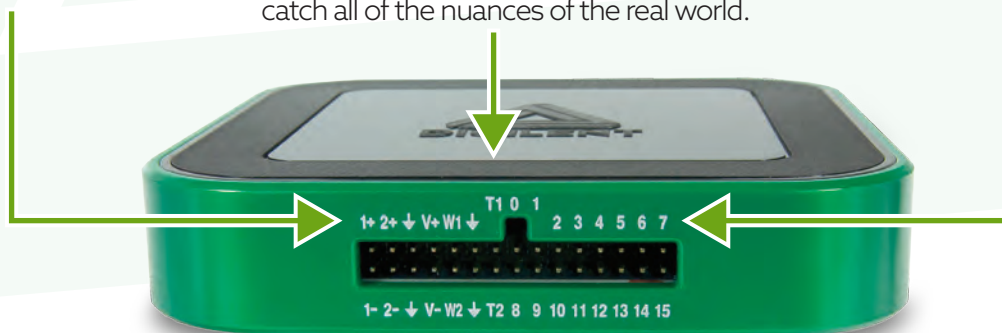
Learn about time and frequency domain by measuring an RC low-pass filter's time constant and plotting its frequency response in a bode plot.

Trigger Pins:

Use the complex triggering system for edge, pulse width, timeout, and transition triggers in addition to cross-instrumentation and external triggers to catch all of the nuances of the real world.

Digital I/O:

Explore digital signals and interfaces by sending, receiving, and spying on various standard protocols like UART, I2S, I2C, CAN, & more.



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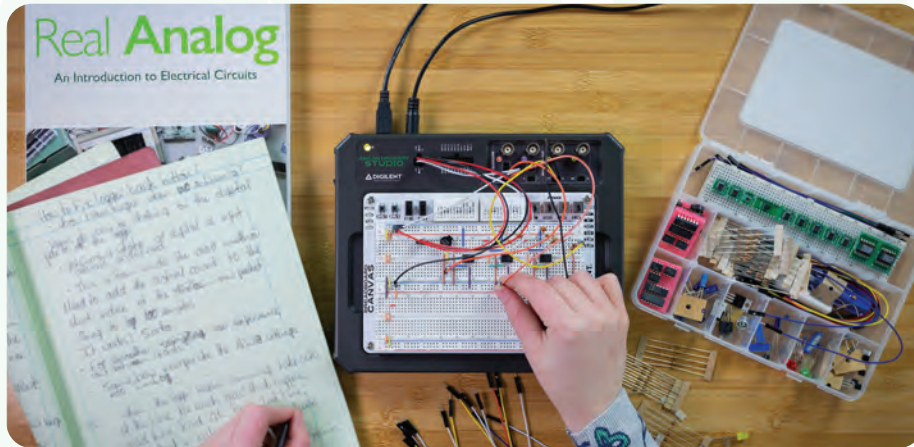


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For users of NI's ELVIS III:

ANALOG DISCOVERY STUDIO™

The Portable Circuits Laboratory for Everyone.



The Analog Discovery Studio is a fully-functional portable test and measurement device that can turn any cross-functional space into a pop-up electronics laboratory. Equipped with 13 instruments including an Oscilloscope, Logic Analyzer, Spectrum Analyzer, Waveform Generator, and more; the Analog Discovery Studio provides an entire stack of benchtop instruments with a convenient breadboardable interface, perfect for enabling circuit design anywhere!

When lab spaces are not always available or convenient, the Analog Discovery Studio is a great choice as a supplement to traditional laboratories.

Power Supplies

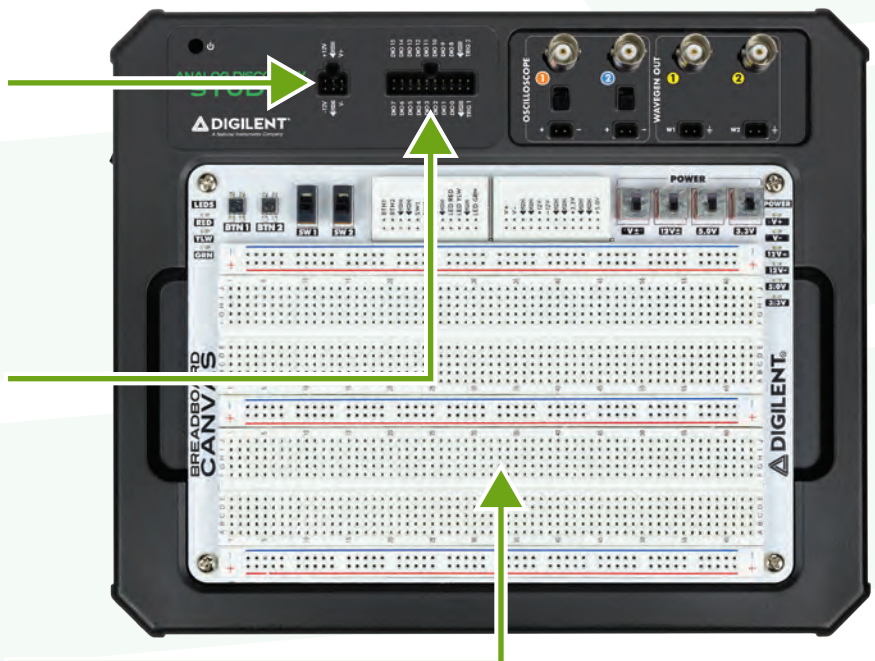
Analyze the effect of amplifier circuits using op amps, providing power to both positive and negative supply pins with a dedicated power supply.

Digital I/O

When used with an Interposer Canvas, the Studio can be used to connect FPGA boards like the Basys 3 and Zybo Z7 to create a reconfigurable device to teach digital gates and protocol implementation.

Canvas Add-On Boards

A variety of removable breadboard canvases can be attached to the board, allowing students to swap them out and share a single lab unit.



Analog ICs provided by



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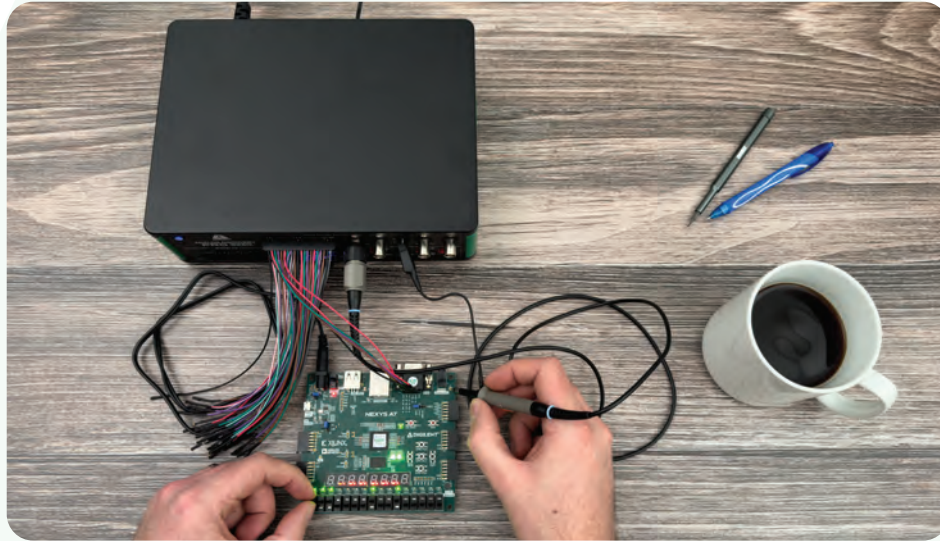


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For users of NI's VirtualBench:

ANALOG DISCOVERYTM PRO **ADP5250**

The Ultimate All-In-One Test System.



A Complete 1GS/s 100MHz Mixed Signal Oscilloscope, Function Generator, Power Supply and DMM, All-In-One!

The ADP5250 takes multiple tools and puts them into a single system that any test engineer can benefit from providing a reliable way to work on a majority of their needs. It combines high performance analog (two at 100MHz) and digital (32) channels, external triggering, and a built-in programmable DMM and tri-output power supply capable of up to 25 V. The ADP5250 is also supported by Digilent's WaveForms software.

Digilent Support

Extensive software support for familiar languages and tools, like LabVIEW, MATLAB, C, C++, and Python.

DMM & Power Supply

A built-in DMM and variable power supply provide a lab station with a complete benchtop experience.

High-Speed Analog Inputs

100MHz bandwidth and up to 1 GS/s sample rate make the ADP5250 uniquely suited to analyze real radio signals.



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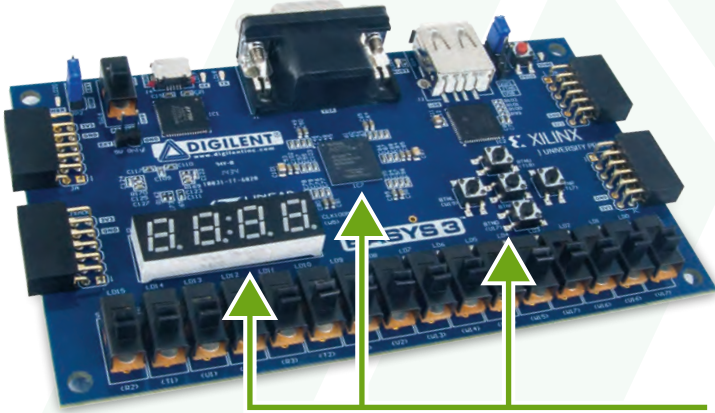


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BASYS 3



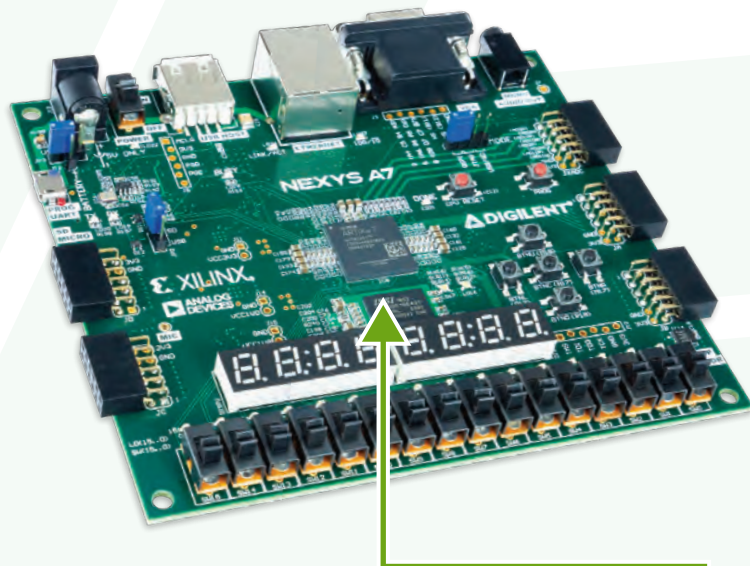
FPGA Trainer Board Perfect for Introductory Users

Designed to facilitate hands-on learning, Digilent's Basys 3 FPGA development board empowers students to grasp complex concepts of digital design through practical experimentation. Its versatility and user-friendly interface make it an ideal platform for teaching fundamental digital design principles.

Tangible Switches, Buttons and LEDs

Create and interact with a variety of combinatorial digital logic circuits, from basic gates up to adders, comparators, and multipliers.

NEXYS A7



FPGA Trainer Board Recommended for ECE Curriculum

The Nexys A7 is an incredibly accessible, yet powerful, FPGA development board. It is a ready-to-use digital circuit development platform that brings industry applications into the classroom environment and allows students to start learning right away with the Nexys A7 thanks to its versatile selection of interfaces.

Versatile Interfaces and DDR Memory

Put computer architecture into practice by building your own processor from scratch.



For users of NI's myRIO:

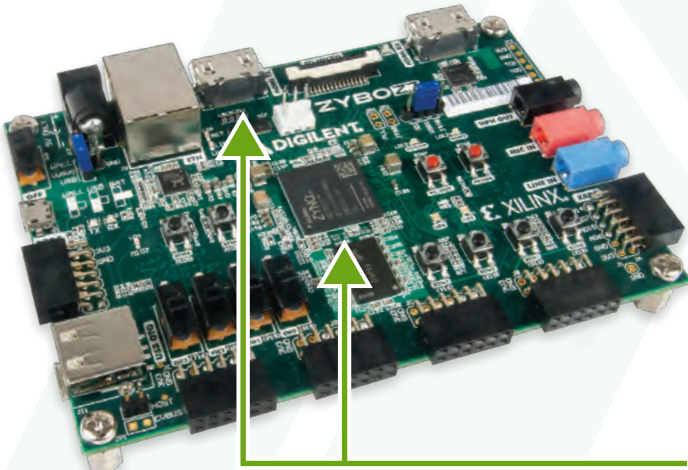
ZYBO Z7

Zynq-7000 ARM/FPGA SoC Development Board

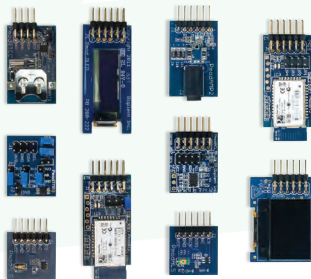
The Zybo Z7's integration of both a programmable FPGA and a dual-core ARM Cortex-A9 processor provides an ideal starting point for hands-on learning and experimentation in system-on-chip (SoC) architecture. By demonstrating how hardware and software components can be seamlessly integrated on a single chip, students can gain a deeper understanding of how complex systems function and understand the relevance of advanced digital design in various industries like embedded systems and IoT devices to multimedia processing and industrial automation.

Advanced Digital Applications

Experiment with vision applications making use of complex system-on-chip subsystems, including built-in processor cores and memory controllers.



Pmod



A diverse ecosystem of Peripheral I/O Modules

Digilent Pmod™ (peripheral module) devices are a line of small plug-and-play digital I/O interface boards that offer an ideal way to extend the capabilities of programmable logic and embedded control boards. When used with a compatible host board, they provide a variety of ways for students to easily add new features and functionality by providing interfaces for their projects to interact with external systems and users.

Versatile Standard for Any Project

Expand functionality by adding peripheral modules that provide access to sensors, motor controllers, and various I/O devices.



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2024 Academic Price List

Boards and Components

PRODUCT	LIST PRICE	DISCOUNT	ACADEMIC PRICE
Basys 3 Artix-7 FPGA Trainer Board	\$165.00	25%	\$123.75
Genesys 2 Kintex-7 FPGFA Development Board	\$1,099.00	40%	\$659.40
Nexys A7-100T (previously known as Nexys 4 DDR)	\$349.00	25%	\$261.75
Nexys Video Artix-7 FPGA Trainer Board	\$549.00	40%	\$329.40
XUP USB-JTAG Programming Cable	\$150.00	34%	\$99.00
ZedBoard Zynq-7000 ARM/FPGA SoC Board	\$589.00	15%	\$529.98
Zybo Z7-10 ARM/FPGA Development Board	\$299.00	25%	\$224.25
Zybo Z7-20 ARM/FPGA Development Board	\$399.00	25%	\$299.25

Test and Measurement Equipment

PRODUCT	LIST PRICE	DISCOUNT	ACADEMIC PRICE
Analog Discovery 3 Scope & Logic Analyzer	\$370.00	33%	\$249.00
Analog Discovery Student Bundle	\$459.00	32%	\$329.00
Analog Discovery Studio	\$699.00	22%	\$580.17
Analog Discovery Studio BNC Cable Bundle	\$744.00	16%	\$643.75
Analog Discovery Pro 5250	\$2495.00	15%	\$2120.75
Analog Discovery 3 Pro Bundle	\$409.00	31%	\$279.00
Digital Discovery	\$199.99	15%	\$169.99
Digital Discovery High Speed Adapter & Logic Probes	\$249.99	15%	\$212.49

Note: Any product available on Digilent's site that is not listed above will receive an automatic academic discount of **15%**.